



EUGENE REUBEN CRISPIAN KERNER

Curriculum Vitae

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 **QLD Australia**

— Expert Software Engineer with over 30 years experience —

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Cover Letter

To whom it may concern:

I am a Principal Software Engineer specialising in Information Technology and Data Science Services and Consulting.

I have over 30 years of experience in web and software development, strong math, ability in a wide range of languages and technologies, and comprehensive knowledge of algorithms.

I am confident and proven in my capacity to solve any tech problem.

I'm adept at managing projects and teams and I am competent in a range of DevOps and software development methodologies including agile, scrum, kanban and waterfall.

My primary interests and expertise apply to app development, platform development, IoT and automation, microservices, SAAS, RESTful and real-time API services, low latency services, high traffic services, peer-to-peer, agritech, manufacture, telecommunications, big data, and data science. I particularly enjoy invention and innovation.

I have developed for a diverse range of clients including -



Additional to my I.T. skills I am proficient in electronics and robotics, and accomplished in mechanical repairs, metal fabrication, and manufacture.

I am self-disciplined and an inspired thinker, with a diligent approach to problem-solving, and I am always open to new and better ideas, methods, and opinions.

I am accepting positions preferably in Australia, but will also consider international offers.

Thank you for your interest in my services, I am looking forward to benefiting your enterprise.

Eugene Kerner.

Personal Details

Name: Eugene Reuben Crispian Kerner

Organization: [XAM Consulting Pty Ltd, eKerner](#)

Profession: Principal Software Engineer

Date of Birth: 3rd September 1973

Nationality: Australian

Marital Status: Married

Gender: Male

Phone No: [+61 415 607 770](tel:+61415607770)

Location: QLD Australia

Email Address: eugene@kerner.au

CV (This): eugene.kerner.au

Interests: Camping and outdoors, Sustainable energy systems, Technology, Engineering, Space Exploration, Music, Guitar, Piano, Horses, Water-sports, Contact-sports, Tennis, Learning, Teaching, and Creating.

Skills and Qualifications

Programming Languages

Javascript(Native, Node, jQuery, Bootstrap), Typescript, C/C++, GoLang, Java, Python, Perl, PHP, ASP, C#, .Net, Visual Basic, VBScript, Unix Shell, Windows Cmd, JSON, YAML, XML & XSLT, HTML5 & XHTML, CSS & SASS, various SQL dialects, Protobuf, and others.

Platform Technologies

AWS, Azure, Google Cloud, Terraform, Kafka, MQ, Kubernetes, Docker, CI/CD, Apache HTTPd, Nginx, Windows Server, Prometheus, Grafana, Datadog.

Frameworks, Libraries, and Services

Angular, Vue, React, React Native, NextJS, GraphQL, Apollo Supergraph, Cordova, Ionic, WP, Joomla, Drupal, Facebook, PayPal, NBN, RBA B2B API, Esri ArcGIS, Cesium GIS, any RESTful, SOAP, RPC or Socket-Based API, and many more.

Databases

RDS, Aurora, MySQL, Oracle, PostgreSQL, DynamoDB, MongoDB, CouchDB, GraphDB.

Protocols

TCP/IP, UDP, HTTP, FTP, RTC, Mail Protocols (SMTP/IMAP/POP), CANBUS, ISOBUS, and others.

Software and Apps

Confident using Windows and Linux operating systems, any Script or Image Editing Software, MS Office and variants, task and issue tracking services and apps, and a large variety of SDKs, development IDEs, DevOps, and business-related software.

Hardware

Proficient in installing, configuring, and programming hardware including servers, networks,

commercial PLCs (Programmable Logic Controllers), Raspberry Pi, and Arduino.

Experience with Windows and Linux operating systems, networking, and most other areas of computer hardware installation, configuration, and operation.

Internet Marketing

A comprehensive understanding of Internet and Social Marketing, Page Ranking, Meta Data and Page Structure Fundamentals, Structured Data, Internet Advertising Mediums, SEO, SMO, Keyword optimisation, most common ad platforms and services, marketplaces, and various other product ad service promotion mediums and technologies.

Management

Career experience leading and managing teams of software developers.

I have worked in Project Manager and IT Manager roles.

I am adept in various DevOps and Project Management services and apps such as Azure DevOps and Jira, and methodologies such as Agile, Scrum, and Kanban.

In 2019 and 2020 I established and managed offshore dev houses.

Public Relations

A friendly, outgoing, and informative personality, advanced conversational skills, and great listening and problem-solving skills, coupled with my sales and PR background, render me an excellent customer liaison.

Electronics

I have been interested in and studying electronics since I was 12yo and I can repair most appliances and electrical equipment.

I have undergone an apprenticeship and worked with Technical Repair Services.

These days I mainly use the knowledge for PLCs, Arduino, Raspberry Pi, and Robotics projects.

I am also a fast learner and highly adaptable to any given environment.

Work History

- 2022 to current** **XAM Consulting Pty Ltd**
Sydney. Brisbane. Melbourne. Manila.
- Position:** Lead Consultant
- Duties:** Technical Consulting
Project Planning
Tech Lead
Software Development
-
- 2022** **Wildlife Studios**
Brazil. Austin. Australia.
- Position:** Principal Software Engineer (Backend)
- Duties:** R&D of Metagame API Platforms and Services
Stage and deliverables planning
Team planning and facilitation
-
- 2019 to 2022** **Flexible Constructions Pty Ltd**
Canberra, Australia
- Position:** Principal Software Engineer
- Duties:** R&D of Sites, Apps and Systems
Team Management
Marketing Strategies R&D
-
- 2018 to 2021** **Hydrotech Monitoring Pty Ltd**
Queensland Australia
- Position:** Principal Software Engineer
- Duties:** R&D of Farm in ONE AgriTech IoT Platform
Consultancy
Team Lead
DevOps

2014 to 2016 **Hydrotech Monitoring Pty Ltd**
Queensland Australia

Position: Lead Software Engineer

Duties: R&D of AgriTech IoT Platforms
Consultancy
Team Lead, DevOps

2013 to 2015 **Coach Communications**
Queensland Australia

Position: Contractor

Duties: Development work on TAPP, LEAP and Class Act products.
I.T. Consultancy.

2009 to
Current: **eKerner**
Australia

Position: Proprietor/Manager

Duties: Manage IT Department
Project Management
Systems and software design, development, and management

2008 to 2013 **Capital Removal Pty Ltd**
Canberra, Australia

Position: IT Manager

Duties: Manage IT Department
Project Management
Systems and software design, development, and management

2007 to 2008: **Hermies Precisa Pty Ltd (now Salmat)**
Australia

Position: Acting IT Manager - 6 months

Duties: Manage IT Department - Team of 12
Project Management and General Management

2005 to 2007: **Hermies Precisa Pty Ltd (now Salmat)**
Australia

Position: Senior Programmer Analyst

Duties: Project Management
Software Development and Maintenance
Systems Design

2002 to 2005: **drawKcab softKcare**
Canberra, Australia

Position: Senior Project Manager
Senior Marketing Administrator

Duties: Software Development and Maintenance
Website Development and Maintenance
Marketing and Sales
General Management

1997 to 2001: **Byron Bay Now**
Byron Bay, Australia

Position: Senior Web Developer

Duties: Website Development and Maintenance
Website Backend Programming
Sales and PR
Market Research

1996 to 1998: **Jax Transtate Tyre and Marine**
Belconnen, Australia

Position: Mechanical Trades Assistant and Suspension Specialist

Duties: Motor Vehicle Maintenance
Marine Mechanical Design and Maintenance
Sales and PR

Mobile Service Unit Manager

1993 to 1995:

Garden City Home Care
Wagga Wagga, Australia

Position:

Sales Representative

Duties:

Website Design and Development
Sales and PR
Planning and Marketing
Bookkeeping, invoicing, and ordering.

1989 to 1992:

Technical Repair Services
Wagga Wagga, Australia

Position:

Apprentice Electronics Technician

Duties:

Repair of electrical and electronic equipment
Stock control
Sales, PR and Clerical

References

Jason Robson

Director of Product Development, Wildlife Studios SW!G

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Afshin Shahbaz

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James Afford

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Glenys Drew

Director, Coach Culture

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Leanne Drew-McKain

Principal, Coach Pty Ltd

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Phil Hoare

Implementation Manager, Salmat

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E-mail: phil.hoare@salmat.com.au
Phone: +61 262 392 311

Latest Tech Stacks

Mobile Client Appt. App and Services

Mobile Apps:	React Native. Expo.
Infrastructure:	Azure Pipelines. App Center. Azure Functions.
API Services:	Apollo GraphQL. Apollo Server express. Azure Cosmos DB.
DevOps	Azure. Agile SCRUM.

Mobile Games and Game Services

Mobile Apps:	Unity 3D (c#). Native Android (Java). Native iOS (Obj-C++, Swift). Protobuf data structs.
Infrastructure:	AWS EKS Kubernetes and ECS. AWS Kafka and MQ. AWS RDS with PostgreSQL. Vault and Etc. GitLab CI/CD.
API Services:	Golang, c++, Python. RPC comms interface. PostgreSQL DBI. Protobuf data structs.
DevOps	Jira. Kanban.

Agritech Sites, Apps, and Services

Web Apps:	Angular - Typescript. Jasmine for Unit and Integration Testing. WebRTC for real-time API comms. Dexie for offline data. Cesium 3D WebGL Engine.
Mobile Apps:	Ionic. Cordova Hybrid wrapping the Angular web apps. Background Services for GPS Tracking and Data Syncing.
Infrastructure:	AWS EC2 + Auto Scaling and Warm Pools. AWS ECS AWS Lambda Serverless FaaS. AWS S3 + Cloudfront. AWS RDS, DynamoDB and Aurora. Some Monolithic RHEL and Ubuntu servers
API Services:	Typescript NodeJS Server Side app. RESTful comms interface. RTC and Websockets real-time comms layers. MongoDB, MySQL, and Oracle Databases. OAuth2 secure session mgmt. Jasmine for Unit and Integration Testing. Swagger/OpenAPI docs.
Hardware/Controllers (PLCs):	VxWorks (c++). Windows CE (c#). Interfacing to and coupling with various 3rd-party tech. MODBUS, CANBUS, and other Farm Machinery Protocols. RTC and websockets for real-time PLC to user app comms.
Drone and Satellite Imagery Processing and Delivery Services:	Python (Django) and c++ for FE and API. PostgreSQL database. GoLang for 2D/3D tileset server. GDAL (ErLang), Grass, and Other Geospatial Imagery processing libs. Perl for processing control scripts. Docker Swarm container mgmt and scalable deployment.
Websites and CRM/ERP:	PHP WordPress, Joomla, and various PHP-based suites. MySQL and Oracle databases.
DevOps:	Azure DevOps. Agile.

Building Construction Sites, Apps, and Services

Site, Inventory, and Staff Apps:	Angular - Typescript. React - Typescript. RTC. Hybrid: Cordova. React Native. Ionic.
Infrastructure:	Kubernetes. AWS EKS. AWS Lambda Serverless. Monolithic RHEL.
API Services:	Java, Kotlin Laravel (PHP). NodeJS (Typescript). Express RESTful. RTC for real-time comms. Bash and Perl scripts. OAuth2. AWS Cognito and IAM.
Websites and CRM/ERP:	PHP - WordPress, Joomla, SuiteCRM. MySQL databases.
DevOps:	Azure DevOps. Agile.