

# Luke Davis

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## EDUCATION

March 2012 – November 2015

### Bachelor of Science (Software Engineering, Computer Science)

University of Western Australia

## WORK EXPERIENCE

January 2022 – present

### Programmer

OzGrav research group

- Designing and implementing the CI/CD iterative development system.
- Containerise build system to use Docker/Apptainer and write deploy scripts / bash functions to utilise this in HPC environments .
- Refining pipeline critical path to lower latency.
- Implemented pipeline artifact processing framework.
- Built a centralised database and performance monitoring/alert dashboard for live analysis of pipeline results.

October 2018 – present

### Software Engineer

Elemint

- Architected and managed the operations and continuous integration of the systems development life cycle.
- Managed cloud services for provisioning of computational and storage resources.
- Designed and administrated production databases.
- Developed full stack applications for AI model deployment and inference.
- Planned and constructed multiple on-premises CI/CD and GPU compute servers.
- Refactored legacy ML models and systems to modern frameworks (for ongoing R&D).

April – October 2018

### Technical Consultant

Lateral Capital Ventures

- Performed market research and codebase analysis on software start-up companies.
- Developed Web3 connected asset swapping interface.
- Developed a high availability market maker and liquidity provider agent.

June 2013 – Jan 2018

### Front-end Manager and Customer Service Representative

Bunnings Warehouse

- Maintained friendly service in a fast-paced environment at the returns desk.
- Oversaw and mentored the customer service team.
- Managed breaks and procured replacement staff.

## SKILLS

**Fields** Systems Administration, DevOps Automation, Database Design and Management, Cloud Computing, Computer Vision, Machine Learning, High-Performance Computing, Parallel Computing.

**Programming Languages** Python, Javascript, C++/C, SQL, Bash, Ruby, Solidity, Kotlin, Java, HTML.

**Frameworks and Libraries** Pytorch, Node.js, Redis, Gstreamer, Flask, FastAPI, Vue.js, Ruby on Rails, WinAPI.

**Developer Tools** Linux, git, Docker/Apptainer, Kubernetes, Jupyter, VSCode, PostgreSQL, Slurm, HTCondor, Grafana/Prometheus, GitlabCI/Jenkins, geth, Systemd, WSL.

**Productivity Tools** Microsoft 365, Google Workspace,  $\text{\LaTeX}$ .

**Cloud** Microsoft Azure, Amazon AWS.