

Education

Mathematical Sciences

Jul 2022 - Dec 2023*University of Adelaide**Adelaide, SA*

- Accelerated linear algebra and calculus classes foundational for computer science and machine learning.
- 6/7 GPA, distinction avg.

Economics and Finance

Mar 2018 - Nov 2020*University of Adelaide**Adelaide, SA*

- Foundations in modern and classical economic theories.
- Financial modelling, statistics and data analytics.

International Baccalaureate (Years 11-12)

Jan 2014 - Nov 2016*St Peter's College**Adelaide, SA*

- Placed in top 5 percent of South Australia with 95 ATAR.
- Developed critical thinking and analytical skills across diverse subjects.

Skills

Programming Languages Technologies

Python | JavaScript/TypeScript
React | Flask | Redis | Angular | Postgres | AWS/GCP | Docker
RxJS | Celery | PyTest | Cypress | Sentry | Redux/Jotai | PyTorch

Experience

Software Agency

Mar 2024 - Present*Clai Studios**San Rafael, CA*

- Founded Clai Studios to provide and develop products leveraging AI.

ML/Python/DS/NLP Engineering Intern

Oct 2023 - Jan 2024*Tangible AI**San Diego, CA*

- Gained hands-on experience in natural language processing, applying machine learning and data science tools.
- Developed a sequence-to-sequence neural network translator using numpy, PyTorch, and pandas.
- Final project involved developing a vector-based search engine utilizing TF-IDF and BERT models.
- Technologies used: Joblib, numpy, pandas, scikit-learn, sentence-transformers, spaCy, PyTorch.

Full Stack Engineer

Jul 2021 - Nov 2023*Adelaide MRI**Adelaide, SA*

- Developed a comprehensive suite of software products to support clinical practices at Adelaide MRI.
- Key project: RadReport, a radiology reporting system that significantly improved report accuracy, detail, and throughput with advanced data and image analysis.
- Additional projects included employee rostering, patient management, invoice management, web configurators, and booking systems.
- Technologies used: Angular, RxJS, Docker, Redis, Flask, React, SQLAlchemy, Celery, PyTest, Cypress, Sentry, Jinja, Postgres.

Notable Projects

Deep Work Timer

Jan 2024 - Present*Personal Project*

- Developed a productivity tool inspired by Cal Newport's 'Deep Work,' designed to optimize focus tracking. Built using NextJS, FastAPI, and AWS.
- Technologies: NextJS, Docker, AWS, Redis, Postgres, Jotai, GraphQL, Strawberry, FastAPI, SQLAlchemy
- View Project: [GitHub](#)

Portfolio

May 2020 - Present*Personal Project*

- Designed and developed a portfolio website showcasing my projects, services, and insights, serving as a dynamic platform for innovative code practices and design principles.
- Technologies: Next, Tailwind CSS, Framer motion, MDX, Vercel
- View Project: [Website](#)

Devarity

Jan 2014 - Jun 2015*Indie Game Distribution Platform*

- Developed an indie game distribution platform offering fairer profit margins and a unique customer experience, featuring over 50 games at launch.
- Technologies: PHP, MySQL, Python, Bootstrap, JQuery