

Education

Bachelor of Mathematical Sciences <i>University of Adelaide</i>	Jul 2022 - Dec 2023 <i>Adelaide, SA</i>
Bachelor of Economics and Finance (deferred) <i>University of Adelaide</i>	Mar 2018 - Jun 2020 <i>Adelaide, SA</i>
International Baccalaureate (Years 11-12) <i>St Peter's College</i>	Jan 2014 - Nov 2016 <i>Adelaide, SA</i>

Skills

Programming Languages	Python Java C++ C C# JavaScript MATLAB Simulink
Technologies	AWS BS/EC/EC2/ELB Azure AD Docker React.js Flask Redis Spring Android ROS

Experience

Owner <i>Clai Studios</i> <ul style="list-style-type: none">Established a development studio dedicated to creating advanced solutions for medical clinics.Focused on building SaaS products and utilizing AI to improve clinic efficiency and workflow.	Mar 2024 - Present <i>San Diego, CA</i>
ML/Python/DS/NLP Engineering Intern <i>Tangible AI</i> <ul style="list-style-type: none">Applied machine learning and data science tools to learn natural language processing (NLP).Built a sequence-to-sequence neural network translator from scratch using numpy, PyTorch, and pandas.Final project: Developed a vector-based search engine utilizing TF-IDF and BERT.Technologies used: Joblib, numpy, pandas, scikit-learn, sentence-transformers, spaCy.	Oct 2023 - Jan 2024 <i>San Diego, CA</i>
Full Stack Engineer <i>Adelaide MRI</i> <ul style="list-style-type: none">Developed a suite of software products to support clinical practice.A radiology reporting system, RadReport, significantly improving report accuracy, detail, and throughput through data and image analysis.Worked on additional projects including 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.	Jul 2021 - Nov 2023 <i>Adelaide, SA</i>

Notable Projects

Deep Work Timer <i>Personal Project</i> <ul style="list-style-type: none">Inspired by Cal Newport's 'Deep Work,' this productivity tool reimagines focus tracking. Disappointed by existing options, I built a personalized timer aligning with Newport's research. This NextJS application uses Docker, AWS, and a robust backend (Redis, Postgres, GraphQL, etc.) to deliver an optimized deep work experience.Technologies: NextJS, Docker, AWS, Redis, Postgres, Jotai, GraphQL, Strawberry, FastAPI, SQLAlchemyView Project: GitHub	Mar 2021 - Sep 2021
Tangible AI Internship <i>Tangible AI</i> <ul style="list-style-type: none">During my internship at Tangible AI, I developed and evaluated various information retrieval (IR) systems to enhance search results within a corpus of health documents. Starting with TF-IDF, I created a pipeline for processing and assessment, then compared results against a BERT-based vectorizer. This project, alongside Hobson Lane's 'NLP in Action,' deepened my understanding of natural language processing.Technologies: Jupyter, Pandas, SpaCy, NumPy, SciKit, HuggingFace, Joblib, PyTorchView Project: GitHub	Oct 2023 - Jan 2024
Harmony Within <i>Professional Project</i> <ul style="list-style-type: none">This professionally designed website empowers health coaches to effectively manage their practice and attract new clients. The platform provides a comprehensive suite of tools for client engagement, appointment scheduling, and resource sharing, all presented in an elegant interface that fosters trust and credibility.Technologies: Gatsby, Stripe, Sanity.io, Acuity Scheduler	Jan 2021 - Apr 2021
Portfolio <i>Personal Project</i>	May 2020 - Present

- My portfolio website showcases my projects, services, and insights while serving as a dynamic testing ground for innovative code practices, technologies, and design principles.
- Technologies: Next, Tailwind CSS, Framer motion, MDX, Vercel
- View Project: [Website](#)

Devarity

Jan 2020 - Jun 2020

Indie Game Distribution Platform

- This indie game distribution platform champions independent game developers by offering fairer profit margins and a unique customer experience. At launch we featured over 50 games from our partners.
- Technologies: PHP, MySQL, Python, Bootstrap, JQuery