Ethan Hawkins

EDUCATION

University of Melbourne   Melbourne, VIC
BSc, Computing and Software Systems   *Feb. 2022 – Dec 2024*
Courses: Algorithms and Data Structures, Object Oriented Software Development, Database Systems, Computer Systems, Software Modelling and Design, Quantum Computing, Machine Learning, Linear Algebra, Declarative Programming.

WORK EXPERIENCE

Altis Consulting - Snowflake, SQL, Python   Jul. 2023 – Present
Technology Intern   *Jul 2023 - Oct 2024*
- Developed and integrated 5+ ETL Pipelines for a top client
- Streamlined the DevOps process with Python tools to automate compliance checking for code standards, saving 2+ hours of time per deployment cycle.
- Engineered complex JavaScript stored procedures in Snowflake to ensure consistency of code across environments, with 100% code coverage.

Consultant   *Oct. 2024 - Present*
- Skipped Graduate role due to high level of responsibility managing the integration of 3+ complex, real-time SQL based systems in an ASX top 20 company.

PROJECTS

Sprout Momentum Master App — TypeScript, Redis, Auth0, AWS   July 2024 – Nov 2024
SCRUM Master and Full-Stack Developer
- Developing a productivity app to help professionals take control of their growth through self-reflection.
- Driving team collaboration in a group of 5 using SCRUM methodology, executing 3-week sprints, and maintaining detailed documentation on Confluence.
- Implementing and managing CI/CD pipelines via Vercel and Gitlab for efficient deployment and integration.
- Developed and implemented comprehensive unit tests for backend APIs using Jest, ensuring 95% code coverage and validating core features including user authentication, data entry, and retrieval.

Personal Portfolio Website — JavaScript, React, HTML, CSS, ThreeJS, Node.js   2024
Personal Project
- Developed a full frontend website with interactive 3d features to showcase my work.
- Learnt vital JavaScript skills on cutting edge frameworks.

JSON Parser— Haskell, Data Structures, Dynamic Programming   2024
Personal Project
- Wrote a JSON parser using vital computer science concepts in Haskell.
- Tested my functional programming skills and strengthened my use of recursion.
- Non-Trivial use of data structures and algorithms, using trees, stacks, and grammars.

IMAP Mail Client— Rust, TCP, UDP, IPs   2024
University Project
- Designed and implemented a fully featured IMAP mail client in Rust using networking libraries.

EXTRACURRICULAR

Code Club Australia   Jan 2023-Present
- Volunteered time weekly, to teach primary school aged children how to code in Python.

SKILLS

Languages: C, Java, Python, JavaScript, SQL, TypeScript, Dart, Haskell, Prolog, Rust, C#.
Developer Tools: Git, VS Code, PyCharm, IntelliJ, MySQL, Jupyter, AndroidStudio, Flutter, Node.js, Snowflake, NeoVim, Azure DevOps, SQL Management Studio.
Project Management & Collaboration Tools: Slack, Jira, Confluence, Agile Methodology.

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