Ryan Hay

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Education

UNSW, BSc. Computer Science / B. Actuarial Studies · Feb 2024 - Mar 2028
- **WAM:** 81 Distinction
- **Notable Results:** 98 COMP1531 96 COMP1511

Rose Bay Secondary College · Apr 2021 - Dec 2023
- **ATAR:** 99.15

Experience

Software Engineer Casual, Seventh Beam – Sydney, AU · Jul 2022 - Present
- Revamped a legacy financial transaction tool by migrating it from Kotlin to Dart/Flutter, enhancing maintainability, scalability and user interface presentation.
- Optimised backend systems to handle high-traffic loads, achieving sub 3 second response times during peak transaction volumes.
- Engineered C# API endpoints for Donut King's "Occasions", streamlining order tracking and delivery operations across 8+ locations.
- Integrated enterprise solutions leveraging Microsoft Azure, TASK Software, and Uber, automating order management and delivery workflows.

Software Engineer Intern, Seventh Beam – Sydney, AU · Mar 2022 - Jul 2022
- Built a Go-based CLI tool to automate the creation of boilerplate code for Flutter/Dart projects, directly improving compliance and significantly reducing setup times.

Projects

Lectrify.app (2024) · git/lectrify.app
- Developed a real-time and concurrent quiz experience for the week-long Devsoc Blueprint Hackathon.
- Won 1st Place and the People's choice award out of 110+ participants.
- Handled a peak of 65 concurrent users at the demo .
- Tools Used: Python, Javascript, HTML, CSS

image_algorithm (2019) · git/image_algorithm
- Built an abstract image generator which explores an optimisation algorithm to reach a final image. The end result is an abstraction of the original image.
- Reached 47 stars on github and hit the top page of r/Python for a week.
- Tools Used: Python

Awards

- 1st | DevSoc Blueprint Hackathon (2024)
- 1st | Relevance AI Tools Hackathon (2024)
- 3rd | Startmate Fellowship Challenge S25 (2024)
- ADF Future Innovators Award (2023)

Skills

Languages: Python, Dart, Javascript, C++, C#, Go, HTML

Technologies: Git, Flutter, Atlassian Suite, Firebase, GCP, Microsoft Azure, .NET