Lorenzo Grillo

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github.com/ignisnl

Technologies

Languages: C, C++, Java, SQL, Rust, Python, Shell, JS, TS, Haskell, MIPS assembly

Frameworks and tools: ReactJS, Docker, LaTeX, Git

Education

BSc **University of New South Wales (UNSW)**, Computer Science   Feb 2021 – Jan 2025
- **Distinction** average - **83.125** WAM
- 2021 Dean's Honour List (Engineering faculty)
- Notable COMP course marks available at ignisnl.github.io/marks ↗

Sydney Grammar School, Higher School Certificate   Jan 2015 – Nov 2020
- **98.35** ATAR
- Holder of the **Alistair Mackerras Scholarship** - one of 24 full, 6-year academic scholarships
- Academic Exhibition - award for **High Distinction** average

Projects

Self-sovereign identity (SSI) system libraries   June 2024 – July 2024
- Capstone project - collaborated with 4 final-year CS students to deliver client-focused solution for CyberSec research student
- A full implementation of 3 components of an SSI system - business logic in Python for the credential holder's wallet, the issuer's issuance system, and the verifier's presentation handler, and an example wallet frontend in ReactJS
- Consulted with a client to clarify project requirements and negotiate specific SSI credential protocols required for specific milestones
- Executed upon all requirements within 3 sprints of 3 weeks each, ensuring procedure-related improvements discussed in post-sprint reflection meetings were implemented
- Source code at github.com/the-cs-goons/capstone-project ↗

Experience

UNSW, Casual Academic   Kensington, NSW
Feb 2025 – present
2 months
- Tutor for 2 weekly classes of 10+ students and assistant for 3 weekly help sessions for COMP6991 - "Solving Modern Programming Problems with Rust"
- Regularly read and responded to posts on internal course forum, providing valuable insight to students struggling with new topics
- Developed multiple course improvements, including altering confusing wording and variable names in weekly exercises, and suggesting structural changes to classes to improve student engagement
- Developed and discussed changes to framework setup tutorials for students, leading to fewer technical issues to be resolved within classes

Seek Pass (formerly Certsy), Verification Officer   North Sydney, NSW
Sept 2022 – Mar 2024
1 year 7 months
- Inspected and processed 800+ credentials per day against government databases in a secure and efficient manner
- Advocated for and benchmarked improvements to the Verification Officer work-

flow such as improved tracking of completed credentials and automated credential switching
- Provided training data for ML-powered parsing of Australian Driver's Licences (reduced no. manual verifications needed by >50%)
- Constructed flowcharts for multiple document verification workflows for use in internal documentation

Amici Ristorante Pizzeria, Waiter and Technical Assistant

Cammeray, NSW
Dec 2021 – Sept 2022
10 months

- Set up and managed restaurant website and online ordering page viewed by 3,000+ visitors a month
- Provided high-quality customer service to 30+ customers per night while taking online and phone takeaway orders
- Provided delivery services in the local Lower North Shore area, servicing up to 20 orders per night

Dymocks Tutoring, Tutor and Content Writer

Parramatta, NSW
Jan 2021 – Nov 2021
11 months

- Developed lesson plans for and conducted 3 weekly lessons, each with 5+ students, for Mathematics curricula from primary to HSC level
- Produced tailored lesson and homework plans to cater to the differing abilities of students within each class
- Identified and communicated students in need of particular attention to support team, collaborated with team to develop special education plans and adjust for different levels of proficiency and study styles

Extracurricular Involvement

UNSW Tabletop Games Society, Events Subcommittee Member

Kensington, NSW
Mar 2022 – Feb 2023

- Assisted new and returning students at weekly boardgame events attended by 20+ in learning how to play boardgames and utilise advanced strategies
- Regularly attended weekly meetings to learn new boardgames in order to broaden scope for recommendations and tips
- Collaborated with other Subcommittee members to supervise out-of-campus events such as picnics and movie nights

Skills

- Program safety and correctness
- Algorithm design
- "Informal" verification methods
- Static program semantics
- Systems-level programming
- RESTful API design
- JS frontend frameworks
- Functional programming
- API design and refactoring
- Set-up and use of CI/CD technologies
- Efficient use of version control software (Git)
- Agile methodology - Sprint/Scrum teams
- Effective communication and team collaboration in work environment settings
- Eagerness to complete work according to strict and structured protocols
- Meticulous attention to detail
- Highly adaptable to flexible and changing stakeholder requirements
- Avid collaborator who is eager to share and iterate upon ideas with team members

References

Available upon request.