

# Lorenzo Grillo

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[github.com/ignisnl](https://github.com/ignisnl)

## Technologies

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

**Frameworks and tools:** ReactJS, Docker,  $\LaTeX$

## 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](https://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 academic scholarships
  - Academic Exhibition - award for **High Distinction** average

## Projects

- Personal website (ReactJS)**   Dec 2024
- Built on the React Router v7 framework, frontend written in MUI Material UI
  - Custom theming provided to ensure responsive UI on all device sizes
  - Source code at [github.com/ignisnl/ignisnl.github.io](https://github.com/ignisnl/ignisnl.github.io)
- Self-sovereign identity (SSI) system libraries**   June 2024 – July 2024
- Capstone project, collaboration with 4 other final-year CS students
  - A full implementation of the 3 components of an SSI system - the business logic for the credential holder's wallet, the credential issuer's issuance system, and the credential verifier's presentation handler, all written in Python; and an example credential wallet frontend written in ReactJS
  - Consulted with our 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](https://github.com/the-cs-goons/capstone-project)

## Experience

- 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
  - Successfully advocated for and benchmarked improvements to the Verification Officer workflow 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

- 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

Cammeray, NSW  
Dec 2021 – Sept 2022  
10 months

**Kmart**, Customer Service Assistant

- Contributed to initial set-up of store at new location, populating all warehouse and floor shelving within 2 weeks
- Performed and collaborated with floor and warehouse managers on multiple facets of floor operation in a busy mall location, including friendly customer service, restocking, cashier operation, and processing returns

Brookvale, NSW  
Apr 2021 – June 2021  
3 months

**Dymocks Tutoring**, Tutor and Content Writer

- 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 learning plans and adjust for different levels of proficiency and learning styles

Parramatta, NSW  
Jan 2021 – Nov 2021  
11 months

## Extracurricular Involvement

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**UNSW Tabletop Games Society**, Events Subcommittee Member

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

Kensington, NSW  
Mar 2022 – Feb 2023

## Skills

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- 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
- Working and communicating effectively in a Sprint team

## References

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Available upon request.