Fardeen Rahman
fardeenrahman.com

Email : **fardeen.mm.rahman@gmail.com**
Mobile : 0444-559-904

EDUCATION

- **Adelaide University** — Adelaide, SA
  Bachelor of Science in Computer Science — GPA: 6.10/7.00 — *March. 2024 – Present*

- **Glenunga International High School** — Glenunga, SA
  ATAR of 97.80/99.95 — *Feb. 2018 – Dec. 2023*

EXPERIENCE

- **Australian Institute of Machine Learning** — Adelaide, SA
  FPGA Research Assistant Internship — *Nov. 2025 – Present*
  - **LiteX**: Used LiteX to test and create FPGA Cores/System-on-Chips to explore various digital design architectures and create full FPGA-based systems.
  - **RISC-V Strucutre**: RISC-V is an open standard instruction architecture that I researched and tested under the supervision of Dr Bradley Morgan. We explored the acceleration of this platform's hardware using quantum resilient algorithms, also known as quantum cryptography.

- **Realty1Global** — Adelaide, SA
  Full Stack Developer — *Summer 2012 and 2013*
  - **Next.js with React and API integration**: Developed a full-stack short-term rental platform using Next.js, React, and Tailwind CSS, implementing secure booking workflows and integrating Stripe for end-to-end payment processing.

VOLUNTEERING

- **Adelaide University Computer Science Club** — Adelaide, SA
  Social Media and Design Officer — *Oct. 2025 - Present*

- **Adelaide University Space Society** — Adelaide, SA
  Marketing and Design Officer/Merchandise Officer — *Nov. 2025 - Present*

AWARDS AND ACHIEVEMENTS

- **Jane Street Estimathon Winner** — Adelaide, SA
  Won in a group of five — *Sept. 2024*
  - **Winner**: Employed several techniques, such as Fermi Estimation and logical reasoning, to achieve the highest point total of the pool of competitors.

- **Adelaide University Principals Scholarship** — Adelaide, SA
  Recommended for academic excellence — *March. 2024*

PROJECTS

- **Files VS Viruses (GroupProject)**: A game much like Plants versus Zombies, coded in C++, notable features include projectile collision using hitbox detection, dynamic health and resources, and implementation of SFML display for the gameplay.
- **Travel Logger Website**: Used mySQL in combination with Vue and Google Maps API to create a website where users can log and record trips for tax claim/reimbursement purposes with capabilities to track accommodation, fuel and toll costs.
- **Adelaide University Space Society Website**: Developed an open-source website in Vercell with Next.js and React, with end-to-end Stripe payment integration. Used calendar library with React to show event schedules as well as a content management system so admin members do not have to hard-code changes.

PROGRAMMING SKILLS

- **Languages**: Verilog, VHDL, Python, Javascript, C++, SQL

- **Technologies**: Physical FPGAs, LiteX, AWS, React, Vue, Google API