Faris Jalal

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farisjalal

Computer Science graduate with experience in app development, cloud integration, and automation. Passionate about building scalable and optimised solutions, with a strong foundation in backend systems, APIs, and data-driven applications. Enjoy collaborating in agile teams and exploring new technologies to create new user experiences.

EDUCATION

University of New South Wales, Australia | August 2024

Bachelor of Science (BSc) - Computer Science

PROFESSIONAL EXPERIENCE

Founding Team Member and Technical Lead

Flip Flop, Sydney, Australia | Dec 2020 – Jul 2021

- Advanced to Round 2 of the Peter Farrell Cup, a UNSW startup competition, by leading a 7-person team to develop a cross-platform social media app.

Software Engineer Intern

Walkerscott Pty Ltd, Sydney, Australia | Dec 2019 – May 2020

- Improved operational efficiency for a blue-chip client by automating business process integrations through 26 Azure Logic Apps.
- Reduced manual deployment effort by designing Azure DevOps CI/CD pipelines and JSON-based deployment templates for cloud workflows.

PROJECT EXPERIENCE

Stock Data Analyser (Advanced Software Engineering Workshop - SENG3011)

University of New South Wales, Australia | Feb 2023 – May 2023

- Developed a microservices-based stock analysis platform using AWS Lambda, API Gateway, and S3, enabling real-time stock data retrieval and visualization.
- Jupyter-based frontend integrating Yahoo Finance, GuardianAPI, and New Relic for real-time stock tracking, news aggregation, and performance monitoring
- System deployed using GitHub CI/CD for automated testing and deployment.

PlusOne (Requirements and Design Workshop - SENG2021)

University of New South Wales, Australia | Feb 2022 – May 2022

- Designed and developed a one-stop event planning/booking cross-platform mobile app using Flutter, Firebase (NoSQL), and a multithreaded Flask (Python) server.
- Integrated Google Maps, OpenWeather, Yelp, Ticketmaster APIs, Uber support, and an in-app chat system for seamless coordination and planning.

Soccer Droids (Engineering Design & Innovation - ENGG1000)

University of New South Wales, Australia | Sept 2019 – Dec 2019

- Led the development of an autonomous soccer-playing robot, programming its Arduino-based control system for real-time decision-making.

Rubber Ducky (Extended Security Engineering and Cyber Security - COMP6841)

University of New South Wales | Feb 2022 – May 2022

- Developed custom human interface device to execute automated payload scripts to disable antivirus software, turn off firewalls, and deploy keyloggers.

COVID-Safe Smart Wristbands (IoT Experimental Design Studio - COMP6733)

University of New South Wales | May 2023 – Aug 2023

- To minimise reliance on smartphones in school settings, implemented a smart wristband-based contact tracing system, achieving accurate proximity detection using Bluetooth Low Energy (BLE), Raspberry Pi devices, AWS and DynamoDB.

TECHNICAL SKILLS

- **Programming/Scripting** - Python, C, C++, Java, Dart, Bash, Perl
- **Web/Mobile Development** - React, Node.js, Next.js, Flutter, Firebase
- **Cloud & DevOps -** Azure Logic Apps, Azure DevOps, GitHub CI/CD, Amazon Web Services (AWS)
- **Databases** - PostgreSQL, SQLite, NoSQL, Firestore
- **Embedded Systems / IoT** - Raspberry Pi, Arduino
- **Networking & Cyber Security**
- **Functional Linux knowledge**

EXTRA CURRICULARS / ACHIEVEMENTS

- **Entrepreneurs' Society of UNSW - IT Director**
  - Led a team of four in designing, prototyping, and initiating development of the Society's website
  - Established and managed Google Workspace, domain services, and Discord for effective team collaboration
- **UNSW Women In Technology - IT Subcommittee Member**
  - Team organised annual Hackathon
  - Designed, developed and maintained the club's website
- **Future of Change Scholarship**
  - Awarded to driven international students to realise their full potential at UNSW
- **Google India 'Code to Learn'**
  - Nation-wide finalist for a graphical application that models the working of optical lenses using MIT's Scratch
- **Ganga House Captain, Shrishti Schools**
  - Won House Trophy in 2018, led squadron of 100 students as Marching Commander

INTERESTS

Speedcubing, Retro Game Emulation, Hobbyist Prototyping on Microcontrollers