

# Sanjeevan Selvaganapathy

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## EDUCATION

**University of Western Australia**, Bachelor of Philosophy, Computer Science, Honors GPA: 7/7, Undergrad GPA: 6.7/7 2020 — 2024  
**University of Nottingham UK**, Exchange, Computer Science 2022 — 2023

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## EXPERIENCE

### Fullstack Developer (via University)

University of Western Australia/South Pacific Competitive Programming Association

- Developed a full stack web-based corpus and RESTful API for archiving and indexing programming contest problems, using **React**, **Express**, **Tailwind** and **SQLite**.
- Implemented file processing algorithms to clean and validate data on upload, enhancing data integrity and consistency across the system.
- Integrated user authentication and established distinct user and admin roles, improving the security framework and access control within the application.
- Conducted comprehensive testing with **Jest** and **Selenium**, guaranteeing application robustness and reliability.

### Founder & Full-Stack Developer

*Journally*

- Initiated and developed Journally, a social journaling platform. Currently in closed beta testing.
- Engineered a comprehensive mobile application using **React Native**, featuring advanced user interface animations with **Reanimated**, an automated sentiment analysis model, and a unique GitHub-style activity tracker, enhancing user engagement and experience.
- Developed a robust backend infrastructure using **Firebase**, implementing stringent security measures to ensure data integrity and user privacy.
- Crafted a visually stunning website with **Next.js**, **Tailwind** and **Framer Motion**, achieving seamless brand consistency across platforms and leveraging advanced web technologies for optimal performance and user interactivity.

### Software Engineer

*HRWise*

- Migrated suite of Microsoft Office-based report generator applications by transitioning to an automated **Python**-driven solution.
- Integrated advanced data manipulation and insightful visual aid generation using **Pandas** and **Matplotlib**.
- Created dynamic report generators with **Jupyter** notebooks, enhancing data visualization and interactivity for end-users.
- Integrated **LaTeX** functionalities, ensuring the final reports are not only data-rich but also aesthetically pleasing, suitable for direct client presentations.

### Volunteer Frontend Developer

*Foodbank - Coders for Causes*

- Authored key frontend components in **React**, including those for character display and character grid. Enhanced web performance by optimizing and cleaning up image assets.

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## PERSONAL PROJECTS

### Full Stack Gambling Interface

- Designed and created a full stack comprehensive gambling interface for web using **Django**, **MySQL** and **Bootstrap**.
- Developed algorithms for an adaptive marketplace, featuring a rich odds-management system updated in real time.
- Designed a modern, mobile-responsive frontend for an optimal user experience.
- Successfully deployed to over 30 users during exclusive event.

### Interactive Event Portal

- Designed and created a full stack event portal for a multi-day tournament using **Next.js** and **Supabase**.
- Built a modern, beautiful landing page using custom-made, interactive 3D models with **Spline**.
- Successfully deployed to over 30 users.

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## UNIVERSITY PROJECTS

### Text Classification System

*CITS4012: Natural Language Processing Project - Received mark of 100%*

- Created a binary and multi-class sentiment analysis system to be used on Seek.com data, using **Gensim**, **Sklearn**, **PyTorch** and **TensorFlow**.
- Trained Convolutional, Feed-Forward and Vanilla Recurrent Neural Networks from scratch to classify jobs by job description.

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## 'The Resistance' AI Agent

*CITS3001: Algorithms, Agents & Artificial Intelligence Project*

- Developed a high-performing **Python** agent to compete in a tournament against other student-developed agents, playing the social deduction game 'The Resistance'.
- Developed adaptations of algorithms and models such as Bayes Theorem, Monte Carlo Tree Search and Markov Models for use in tournament play.

## SKILLS

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### Tools and Languages

Python, React, React Native, Git, Firebase, Supabase, Express, Pandas, matplotlib, Numpy

### Areas of focus

Full-stack Development, Mobile Development, Artificial Intelligence, Data Analysis