Gurmehar Singh

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Professional Summary

Team-oriented and adaptable Computer Science graduate from Swinburne University of Technology, with a specialisation in Software Development and Intelligent Systems. I bring strong problem-solving skills and a user-centric mindset to developing scalable, dynamic web and mobile applications. Currently contributing to real-world projects at a non-profit, applying agile principles to deliver impactful solutions. I am now seeking opportunities to grow as a Software Engineer through collaboration and meaningful technical challenges.

Education

Bachelor of Computer Science   **Feb 2022 - Dec 2024**
Swinburne University of Technology

Graduated with a **major in Software Development** with **minors in Artificial Intelligent, Machine Learning, and Cloud Computing**. Recognized as a **High Achiever in Software Development and Agile practices** for leading outstanding group projects.

Skills

Hard Skills

- <u>Programming Languages</u>: JavaScript, TypeScript, Python, Kotlin, C#, PHP , HTML, CSS

- <u>Cloud Services & Tools</u>: Firebase, AWS, Google Cloud Platform, Git, RESTful APIs, CI/CD pipelines

- <u>Database Management</u>: MySQL, Firestore (NoSQL), MariaDB, GraphQL

- <u>Frameworks & Libraries</u>: ReactJS, Next.js, Vue.js, NodeJS, ExpressJS, Flask, Numpy, Pandas, FastAPI, TailwindCSS

Soft Skills

- Leadership, Problem-Solving, Teamwork, Communication, Attention to Detail

- Agile methodologies, Trunk-based development, Quality Assurance testing

Work Experience

Freelance Software Engineer   **Oct 2021 - Present**
Khalis Foundation   **Remote - CA, USA**

- **Developing vocabulary-building platform** using Next.js and Firebase for US-based language schools, designing scalable Firestore NoSQL schema with gamification features, currently **serving 100+ active students** with consistent daily engagement

- **Maintaining and enhancing search engine accessibility** by integrating audio playback and pronunciation support using Express.js, MariaDB, and AWS S3 on Hetzner servers, **achieved 25% improvement in user engagement** through intuitive audio features

- **Built Google Assistant skill** using Python Flask and Google Actions to deliver daily quotes and TextToSpeech playback of educational resources, delivered valuable accessibility features with positive user feedback

- **Developed cross-platform mobile puzzle game** using React Native and Firebase focused on vocabulary retention, **achieved 5,000+ downloads on Android and iOS** with high engagement among young learners

- **Lead ongoing QA testing efforts** across web, mobile, and desktop platforms, implementing **Smoke, Sanity, and Regression testing protocols** while coordinating cross-functional teams to consistently meet project timelines; currently expanding test automation by implementing **E2E tests with Playwright** and **unit tests with Jest**

Python Developer Intern   **Apr 2021 - Oct 2021**
Khalis Foundation   **Remote - CA, USA**

- Built and published open-source **Python SDK** (**PyPI**, **GitHub**) to integrate **multilingual resource bank** into **AI/ML workflows**; now used internally across multiple projects including their **custom-trained chatbot**, with emphasis on **clean architecture** and **developer-friendly documentation**

- Contributed to **two internal hackathons** by rapidly prototyping solutions with **cross-functional teams**, with one project continued post-event through **voluntary development support**

- Conducted **manual QA testing** across **Windows**, **macOS (via VMs)**, and **Android** apps, identifying **20+ UX and functional issues** via structured **smoke and sanity tests**, significantly improving **pre-release stability**

Certifications

Quantum Software Engineering Job Simulation (Forage)   **Jun 2025**
🔗 https://gmsingh.dev/certificates/quantium-jobsim-certificate.pdf

Certificate of Completion for Learn Tailwind CSS course (Udemy)   **Feb 2025**
🔗 https://gmsingh.dev/certificates/learn-tailwind-css.pdf