

IZZ HAFEEZ BIN ZEK HAZLEY

80286002 ◇ Singapore ◇ izzhafeez@outlook.com ◇ linkedin.com/in/izzhafeez ◇ izzhafeez.com

SUMMARY

Versatile software engineer with 4+ years of experience and a strong passion for web development and UX Design. Proven track record in developing innovative solutions and enhancing operational efficiency using React and Python.

EDUCATION

Bachelor of Computing in Computer Science, National University of Singapore Aug 2021 - May 2025

- Second Major in Mathematics
- GPA: 4.69/5.00
- Dean's List placement in two semesters
- Distinction in Database Systems Focus Area
- Coursework: Product Engineering, Software Engineering, Software Testing, Microservice Architecture, Software Specification, Big Data Systems, Parallel Computing

SKILLS

Spoken Languages — English, Malay, Mandarin, Japanese

Programming Languages — TypeScript, Python, Java, Rust, Go, SQL

Frameworks — React, Vue, Svelte, FastAPI, Astro, Electron, Rails, Django, Flask

Technologies — Git, MongoDB, Figma, Amazon Web Services (AWS), Google Cloud Platform (GCP)

Technical Skills — UX Design, Web Development, Product Engineering, Performance Optimization

Soft Skills — Creative Thinking, Open-Mindedness, Insightfulness, Collaboration, Independent Learning

EXPERIENCE

Frontend Development Intern — *WaveScan Technologies* May 2024 - Aug 2024

- Enhanced operational efficiency by consolidating and merging multiple robotics control software applications into a single, cohesive Electron and Svelte platform.
- Enabled rapid insights for improved decision-making by developing real-time visualizations using D3 and VTK.
- Improved network efficiency by migrating IPv4 routes to IPv6 on the Amazon Web Services (AWS) platform.

Software Engineering Intern — *Quantum Inventions* May 2023 - Aug 2023

- Attracted 12 clients to the company by developing a dynamic API showcase platform using React and Rails.
- Enhanced visual appeal by implementing an interactive OpenLayers map to demonstrate API outputs.
- Ensured code quality by maintaining and expanding test suites in RSpec and Jest, achieving 92% code coverage.
- Streamlined application deployment and scaling by leveraging Amazon Elastic Kubernetes Service (EKS).

Enterprise Information Developer — *Ministry of Manpower* Feb 2021 - Jul 2021

- Strengthened COVID-19 contact tracing efforts by designing PowerBI dashboards and building ETL pipelines to monitor island-wide foreign worker dormitory data, improving the robustness of the Oracle Data Warehouse.
- Promoted good data governance practices to 2400+ employees by developing a SharePoint portal with JavaScript and translating technical documents into accessible language for a non-technical audience.
- Attained 82% speedup in user accounts reporting by developing and automating Excel scripts and macros.

Data Analytics Specialist — *Singapore Civil Defence Force* Feb 2019 - Jan 2021

- Shortened Singapore's emergency response times during the pandemic by developing and leveraging a machine learning application written in React and Flask.
- Achieved 88% runtime speed-up and 96% Google API cost reduction by implementing location-caching strategies.
- Future-proofed emergency services by developing a Python model to simulate demand over 13 years, resulting in the proposed placement of 10+ fire stations and 30+ ambulances as part of the 2030 Masterplan.
- Improved emergency response times for critical cases by developing a recommendation engine in Python that identified 43 faults in an incident triaging system.
- Ensured high-quality work by mentoring and training four junior team members in developing data science projects.

CERTIFICATES

Front-End Developer Professional Certificate — *Meta*

UX Design Professional Certificate — *Google*

Developing Applications with Google Cloud Specialization — *Google*

Developing Applications on AWS Specialization — *AWS*

Cloud Solutions Architect Professional Certificate — *AWS*

Generative AI for Software Developers Specialization — *IBM*

Machine Learning Specialization — *DeepLearning.AI*

TensorFlow Developer Professional Certificate — *DeepLearning.AI*

Scalable Microservices for Developers Specialization — *Vanderbilt University*

HSK 5 Chinese Proficiency Test — *Confucius Institute*

EXTRACURRICULAR ACTIVITIES

Head of Programming — *Victoria Robotics-Makers Club*

May 2017 - May 2018

- Led 30+ club members in robotics competitions by organizing and conducting 10+ coding training sessions.
- Ensured smooth operation of camp activities by promptly organizing alternatives during weather disruptions.

Question Master — *NUS Astronomical Society*

Aug 2021 - Jul 2022

- Played a key role in organizing the annual AstroChallenge competition by designing and reviewing high-impact questions for the Data Analysis round.

PROJECTS

BuilderPal — Developed an AI-powered project recommender using React, FastAPI and MongoDB. Partnered with VIVITA to reach a user base of over 800 children across 7 countries.

StatAttack — Created a data-driven card game using React, FastAPI, and websockets, achieving a player base of 136. Utilized Python and Selenium for data scraping and consolidation from multiple sources.

Portfolio — Launched a website that attained a monthly visit count of 239. Developed 4 apps, 8 quizzes and 12 games as part of the website, written in Astro, Vue, Svelte and React.

EduMate — Developed a meetup recommender in Java, contributing 18000+ lines of code and achieving 98% test coverage with JUnit, ensuring robust performance and reliability.

ChitChatChampion — Developed an online ice-breaker platform using Vue, Flask, and MongoDB. Leveraged LLMs to provide endless replayability and deliver highly personalized experiences, enhancing user engagement and interaction.

RouteWeaver — Created a hike recommender written in Vue and Rust Actix that features personalization based on preferences like terrain and difficulty, using it to plan 19 of my hikes.

NoteTogether — Developed a note-sharing platform with Reddit-like features using Vue, Node.js, and MongoDB, achieving 124 peak users. Includes a Git-like forking system to foster collaboration and a vibrant ecosystem.