Jaishil Patel

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LinkedIn

If you would like to have a better experience trying to get to know me, please visit my CV website: CV website

Personal Statement

I am a triple major BSc Computer Science graduate with my third major being information systems. I have a strong foundation in software development and machine learning. I greatly enjoy building intelligent, scalable, and impactful solutions. I bring a proactive mindset, a fast and determined learning mindset, and hands-on experience in developing web and mobile applications. I am currently seeking an entry-level role in AI, software development, or data-driven technologies where I can grow and contribute from day one. Beyond academics, I spend my time as an active member of BAPS charities and taking walks and working out.

Skills

Programming Languages: Python, Java, C++, C#, C, JavaScript, PHP, SQL, TypeScript

AI and Data Science Tools: NumPy, Pandas, Scikit-learn, TensorFlow, Data Analysis, Basic ML concepts

Web & App Development: HTML & CSS, Node.js, React, Android Studio, Supabase, Render, Vercel, NestJS, Jest, Azure, Auth0.

Databases & Backend: MySQL, SQL Server, Database Design & Management

Software Engineering: Object-Oriented Programming, Version Control (Git), Unit Testing, Agile methodologies.

Other Tools & Skills: VS Code, IT Troubleshooting, REST APIs

Hands on Experience/Projects (GitHub)

RaceIQ – *F1 statistics tracker (Has won project of the year)*

Tech Stack: TypeScript, React + Vite, NestJS, Supabase (PostgreSQL)

- Developed a full-stack F1 statistics tracker with 25 years of statistics of both teams and drivers presented in an intuitive and aesthetic way.
- Implemented a feature that compares metrics, with varying weightings, of drivers and teams.
- Rendered 3D racetracks onto an HTML canvas for interactive visualization
- Applied rigorous data cleaning and analysis to ensure accurate, but fast data retrieval (using materialized views**).**

- Used materialized views to reduce loading time by 40%

HoodGoods – *Web Application for Local Artisans*
Tech Stack: React + Vite, NestJS, Supabase (PostgreSQL), Jest
- Designed and implemented a full-stack e-commerce web app to help small-scale artisans sell handcrafted goods.
- Developed user authentication system (Auth0), shopping cart functionality, and product search filters.
- Integrated backend API with Supabase to manage product listings and user profiles.
- Focused on user-friendly UI/UX with responsive layouts for mobile devices.

EduForum – *Educational Discussion Android App (Reddit Clone)*
Tech Stack: Java, LAMP, Android Studio
- Created a community-based platform where students can share academic content, post questions, and engage in topic-based discussions.
- Implemented post creation, upvoting, commenting, and user profiles using Wits Lamp server.
- Practiced unit testing and A/B testing to ensure code stability, including edge cases for user input validation and data syncing.
- Gained hands-on experience with real-time database design and integration.

MeetMyProf – *Student Consultation Booking App*
Tech Stack: Java, LAMP, Android Studio
- Developed an appointment scheduling Android app to improve professor-student consultations.
- Enabled dynamic time slot selection, booking confirmations, and notifications.
- Implemented input validation, calendar syncing, and simple UI navigation for intuitive usability.

Aperture Protocol – *Escape room game (Has won Game of the year)*
Tech Stack: JavaScript, Three.js, HTML & CSS, Blender
- Implemented various textures and shaders like Phong and Lambert shading.
- Comprehensive story design to ensure cohesion and fun play.
- Serval performance optimization methods such as lazy loading and Occlusion Culling to ensure you can run on even the weakest systems.

Soft Skills: Problem-Solving, Fast and determined learner, Analytical thinker, Team Player, Self-starter, Time Management, Adaptable, Strong Communicator, Detail-Oriented,

Secondary education
Lenasia Secondary School
Top 5 in school (5 distinctions)

Tertiary Education - February 2021 to Present
Bachelor of Science in Computer Science - University of Witwatersrand

Certificates
Alibaba Cloud Engineer