

Venus Lee

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Skills

Languages	Python, Java, C++, JavaScript, SQL, HTML, CSS, R
Technologies/Misc	Git, Spring Boot, React Native, React, PostgreSQL, MongoDB, RESTful APIs, OpenGL, TensorFlow/Keras,
AWS	EC2, Lambda, S3, DynamoDB, CloudWatch, IAM

Work Experience

Zomi Software Engineer (React Native, Python, PostgreSQL, AWS)	Nov. 2024 – Present
<ul style="list-style-type: none">Built and shipped core features including Onboarding, Product Detail Page, Search, and Posting in React Native, optimizing layouts and user experience.Designed and implemented Social Friendship service with PostgreSQL schema + REST APIs (Flask), and deployed backend to AWS EC2 and S3.Developed posting and media upload workflows, integrating frontend UI with backend services for seamless user publishing.Partnered with product design to balance feature tradeoffs and deliver high-impact features under tight timelines.Contributed to successful beta launch of Zomi's social features, driving early adoption among test users.	

Acer Machine Learning Engineer Intern (Python)	Apr. 2023 – Aug. 2023
<ul style="list-style-type: none">Developed a CNN (EfficientNetB0) deep learning model for Glaucoma classification using retinal images from various stages and demographics, initially achieving a sensitivity and specificity of 86%.Increased model performance to 89% sensitivity and specificity (+3%) by fine-tuning learning rates and applying the Bengrahama method.Implemented model checkpointing, improving training efficiency by 15%, and enhanced input quality through preprocessing techniques.Deployed the optimized model in a testing environment within Acer, now in trial production with B2B clients.	

Education

University of British Columbia Bachelor of Science	Graduation: 2024
Major: Mathematics Minor: Computer Science	
Relevant Coursework: Data Structures and Algorithms, Machine Learning, Database Management, Software Construction, Applied Linear Algebra, Human Computer Interaction	

Certifications

AWS Certified Cloud Practitioner	Issued: 2025
Amazon Web Services (AWS)	

Technical Project

AmaSave – Price Tracker Website (Java Spring Boot, React, HTML, PostgreSQL)	
<ul style="list-style-type: none">Developed a price tracking website with user registration, product tracking, and price alert features.Implemented secure user authentication with hashed passwords and session management, and designed a real-time SMS alert system using Twilio for price change notifications.Built a dynamic user dashboard for real-time product tracking, price alerts, and historical trends, leveraging web scraping and API integration for periodic updates.Designed a normalized relational database schema in PostgreSQL to manage users, products, price history, and alerts, ensuring data integrity and scalability.	

Stranded – 2D Survival Game (6-person team) | (C++)

<ul style="list-style-type: none">Led a team of 6 to develop a 2D space survival game using OpenGL for graphics rendering, incorporating complex gameplay features such as mob behaviors, item drops, story items, and a fog of war system.Implemented the A* pathfinding algorithm to optimize navigation and developed dynamic spawning algorithms for game mobs.Designed sprite sheet rendering for character animations and integrated UI screens for tutorial, starting, and ending scenes.Enhanced game stability through algorithm optimizations, including memory management improvements and efficient rendering techniques, preventing crashes and ensuring a consistent game resolution.	
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