Amos Liew

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SKILLS

Programming – Python · Java · Javascript · Dart

Web Development – ReactJS · TailwindCSS · Flask · ExpressJS · Firebase · Heroku · Flutter

Databases – PostgreSQL · MongoDB · Redis

Technologies – Git · PyTest · OpenCV · Docker · Shell · Linux

EXPERIENCE

Software Engineer Intern
Liminal Insights Inc   **August 2022 – August 2023, Emeryville, CA**
· Implemented multithreading and multiprocessing to insert records into a database asynchronously, improving data collection throughput by 10%.
· Improved internal development tools by developing an automated QA script, a hardware auto-reconnect feature, and a local OPCUA server, increasing overall efficiency by 25%.
· Designed and built frontend features focused for lab usage of the echostat platform.
· Increased unit and integration test coverage to the method level by implementing a test-driven approach, resulting in a more robust and reliable application.
· Tech Stack: Python | Dash | Redis | Flask | Docker | Linux | PyTest

Full Stack Software Engineer Intern
BeeX Private Limited   **May 2022 – July 2022, Singapore**
· Designed and implemented interactive 3D features to parse and display point cloud data.
· Reduced search time by 70% by building a search feature using the lazy loading concept for better image and point cloud data filtering.
· Tech Stack: ReactJS | Microsoft Azure | ThreeJS

Full Stack Developer Intern
Skittle Private Limited   **December 2021 – July 2022, Singapore**
· Oversaw the fullstack design and development of Skittle's Reservation Management feature, which served 10 local restaurants.
· Designed frontend mockups of the reservation feature based on existing Clients' needs, using Figma.
· Planned and executed the migration of Skittle's existing backend to a centralized backend with API microservices that utilises RDB, resulting in an increase in performance.
· Techstack: Python | ReactJS | TailwindCSS | ExpressJS | AWS Elastic Beanstalk | AWS RDS | PSQL.

Software Developer Intern
Kinexcs Private Limited   **May 2021 – August 2021, Singapore**
· Designed and implemented data-driven front-end features for a cross-platform mobile application, currently serving over 30 customers.
· Managed a team of 6 to concurrently develop and manage the release of 2 software products as Software Team Lead.
· Headed the development of a Computer Vision powered AI Physiotherapist MVP with a team of 2 other interns.
· Tech Stack: Python | Flutter | OpenCV | MediaPipe | Aruco

PROJECTS

SeeTurtle – Robotic Turtle for Micro-plastic Cleaning
SUTD What The Hack 2021 · September 2021 – September 2021
· Designed and 3D modeled a Robotic Turtle with the purpose of micro-plastic collection in oceans.
· Developed and deployed a Web Application for Ocean waste management education through the live-streaming of footage from the robo-turtle.
· Awarded Best Design under the SUTD What The Hack 2021, a 24-hour Hackathon.
· Tech Stack: TinkerCAD | NextJS | TypeScript | TailwindCSS | Firebase | Vercel

PigUp! – Gamified Financial Tracker
CP2106 - NUS Independent Software Development Project · May 2021 – August 2021
· Targeted at youths, it is a cross-platform mobile application that incentivizes good financial habits through an interactive mobile virtual pet pig.
· Project was awarded the Highest level of achievement - Artemis (Extreme) under CP2106 - NUS Independent Software Development Project.
· Tech Stack: Flutter | Python | MongoDB | Flask | Heroku

EDUCATION

Bachelor of Computing (Honours) in Information Systems
National University of Singapore · Singapore · 2024 · 4.46 / 5.0