Alexander Bhojwani

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EXPERIENCE

Full Stack Developer
2022 – Present

SmilePepper
Singapore

- Conceptualised and developed SmilePepper webapp and API using Vue3 and Wordpress
- Developed design guide and common UI component library with Figma, TailwindCSS and DaisyUI to standardise frontend design and increase development efficiency
- Researched payment gateway integrations and implemented Stripe API using VueStripe to facilitate card payments

Digital Solutions Consultant
2020 – 2022

Foodalicious Concepts
Singapore

- Spearheaded implementation of digital solutions for the Chunky Lobsters brand
- Developed online ordering and database system using Google forms integrated with Google Sheets, markedly increasing revenue by removing manpower overhead and facilitating thousands of new online orders
- Implemented data storage and resilience through automated backups of thousands of customer and order data points across 3 outlets using AWS S3 and Powershell
- Developed easy to follow SOPs, training management and outlet staff to leverage digital solutions to increase manpower efficiency across 3 outlets

PROJECTS

SpendSplit | *NextJS, React, Typescript, MaterialUI, Prisma, PostgreSQL, Vercel*
- Built a full-stack expense tracker and splitter using NextJS, React, Typescript and PostgreSQL
- Developed automated QA by integrating Cypress end to end testing into Github Actions CICD pipeline

Hilo | *Vue3, Typescript, Python, FastAPI, SqlAlchemy, PostgreSQL, DigitalOcean*
- Production-ready game app with user authentication, persistent game scores, and custom audio and graphics, deployed with SSL protection
- Ensured continued function of backend processes during development by implementing unit and integration testing using Pytest
- Developed CICD pipeline to automate code quality checking and test coverage using pre-commit hooks, Github Actions and CodeCov
- Automated Docker image updating, cloud provisioning and app deployment to an AWS EC2 instance using Docker, Terraform, Ansible, Github Actions and AWS

Portfolio Website (alexdb.me) | *Vue, Typescript, ThreeJS, Tailwind, DigitalOcean*
- Live portfolio website with interactive animated 3D model, stateful and toggleable dark mode, and theme-responsive elements
- Automated Docker image updating, cloud provisioning and app deployment to a DigitalOcean droplet using Docker, Terraform, Ansible, Github Actions and DigitalOcean
- Leveraged Lighthouse to implement SEO, optimise JS bundle and media sizes by 90% to increase page speed score and reduce suboptimal user experiences

TECHNICAL SKILLS

Languages: Python, Javascript, Typescript
Frameworks: Vue, React, NextJS, FastAPI, SQLAlchemy, Prisma, Tailwind, MaterialUI, ThreeJS
Database: PostgreSQL, SQLite, MongoDB
Developer Tools: nginx, Docker, Ansible, Terraform, AWS, DigitalOcean, Git, Github Actions
Certifications: AWS Certified Cloud Practitioner

EDUCATION

Singapore Management University
Singapore

Bachelor of Science in Economics (Honours)
2015 - 2020