Alexander Bhojwani

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TECHNICAL SKILLS

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

EXPERIENCE

Full Stack Developer
2022 – Present

SmilePepper — *Singapore*

- Conceptualised and developed SmilePepper, an ecommerce marketplace and media platform using **Vue3**, **Typescript** and **Wordpress**
- Architected, implemented and optimised **DigitalOcean** cloud deployment architecture to balance high quality development and user experience with cloud expenditure
- Developed design guide and implemented common UI component library with **Figma**, **TailwindCSS** and **DaisyUI** to standardise frontend design and increase development efficiency
- Automated frontend end to end and component testing into Bitbucket CICD process using **Cypress** to reduce manual QA requirements

Digital Solutions Consultant
2018 – 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, removing manpower overheads and creating a new revenue stream accounting for 30% of daily revenue and 80% of pandemic-era revenue.
- 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*

- Developed a full-stack expense tracker using **NextJS**, **React**, **Typescript** and **PostgreSQL**
- Automated QA by integrating **Cypress** end to end testing into **Github Actions** CICD pipeline
- Implemented image upload and storage to **AWS S3** to minimise media storage costs
- Leveraged **Lighthouse** to implement SEO, optimise JS bundle and media sizes by 90% to increase page speed score and reduce suboptimal user experiences

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**

EDUCATION

Singapore Management University
Singapore

Bachelor of Science in Economics (Honours)
2015 - 2020