Ng Guoyou

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KEYWORDS

Work experience with TypeScript, Rust, Python, JavaScript, Node.js, Ruby, HTML, CSS, Docker, React, Redux, Webpack, Photoshop, Illustrator, Agile

EDUCATION

Bachelor of Computing (Communications & Media) Hons.
National University of Singapore, 2011–2015

EXPERIENCE

BASIS AI (BASIS TECHNOLOGIES PTE. LTD.)
Software Engineer, Singapore, 2019–Current
2019–Now. TypeScript, Python, Rust, React, Redux, Docker, Kubernetes
Employee #3 and engineer on Bedrock, a machine-learning platform for training and deployment. Implemented frontend in React and Redux with directed-graph visualisations. Created workload monitor in async Rust. Worked on Python API server. Implemented Docker image caching for fast workloads using kaniko. Implemented company website https://basis-ai.com/ in Next.js. Set up agile environment and processes.

GOVTECH (GOVERNMENT TECHNOLOGY AGENCY)
Software Engineer, Singapore, 2016–2019
GoBusiness Licensing guided journey, government licenses portal
2019. TypeScript, React, Redux, Kotlin, Spring Boot
Part of initial team. Bootstrapped project and implemented features for F&B licensing.

https://www.mycareersfuture.sg, job portal
2018. Node, TypeScript, JavaScript, React, Redux
Implemented frontend features for MyCareersFuture. Initiated the move to TypeScript.

https://opencerts.io, academic qualification verifier
2018. Ethereum, Parity, Solidity, JavaScript, TypeScript, React, Redux
Wrote and deployed simple smart contracts for certificate registration on Ethereum. Created tools to interact with these smart contracts in Node, TypeScript and React.

Data ingestion validator, API endpoint, and data visualisation application
2017. Rust, Python, Flask, JavaScript, React, Redux
Optimised data ingestion time by 50× over pre-existing implementation using PyPI and then Rust. Developed front-end application from scratch with IE11 support.

https://www.businessgrants.gov.sg, grant application and tracking portal
2016. Ruby on Rails, React, Redux
Implemented features for and fixed bugs on forms with complex validation logic. Introduced, implemented CI-enforced linting for Ruby and JavaScript on existing code.

PERSONAL

Singapore citizen. Native English and Mandarin Chinese speaker.

- Toy audio synthesizer library in Rust with MIDI support and WebAssembly interface
- Parallel raytracer with basic animations in Rust
- Retro image filtering application in React and Redux
- Browser extension for organising downloads with ≈3000 users
- Sharing sessions and presentations from work