Joel Hyeokjoo Mun

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Pending graduate with 4 years of full stack development and team building experience

EDUCATION

The University of Hong Kong (leave of absence: 2017 – 2021)   Sep 2015 – June 2023
Information Systems & Computer Science

EXPERIENCE

Senior software engineer | Presence, Inc, **Remote (US)**   Nov 2020 – Sep 2021
- Led the team of three engineers and a designer
- Rewrote the frontend of Electron app with React and Typescript, achieving 30% decrease in CPU usage
- Designed and deployed Node.js serverless endpoints using AWS CDK and Terraform
- Automated testing, deployment, build of the Electron and web app through CI/CD

Frontend team lead | Angelswing, Inc, **South Korea**   Sept 2019 – Nov 2020
- Managed the team of six frontend engineers
- Directed the team in upgrading the product version to 2.0 with improvements in UI and technology
- Boosted the frontend performance up to 20% by identifying bottlenecks in React and TypeScript
- Set up E2E testing for CI/CD using Puppeteer for the vital features of the web app

Software Engineer | Republic of Korea Navy, South Korea   Oct 2017 – Aug 2019
- Developed internal Chrome extension for cybersecurity management inside the intranet
- Automated monitoring virus infection by creating a bash application interacting with PostgreSQL
- Maintained scraper and frontend for an internal search engine based on JavaScript

PROJECTS

[RISC-V Web Simulator](#)
- Simulated RISC-V instructions with C++ library ported to WebAssembly running on Typescript frontend

[Elasticpwn](#)
- Leveraged Go and React to collect and analyze data from thousands of Elasticsearch endpoints

[Graph](#)
- Designed a performant graph visualization library based on WebGL and IndexedDB

[Youtube Lite](#)
- Used React, Redux and Typescript to build a simpler version of Youtube, recording 300+ monthly users

Technologies and Languages

- JavaScript, TypeScript, Python, Go, AssemblyScript
- AWS, GCP, AWS CDK, Docker, Unix, Terraform, Electron, React, Node, MongoDB, CircleCI, Bash

Awards

- ROK Military Open-Source Software Competition, runner-up, Nov 2018
- ROK & US Navy Cyber Defense Contest, first prize, May 2018
- HKU Foundation Scholarship for Outstanding International Students, Nov 2015