JOEL HYEOKJOO MUN: FULLSTACK WITH SUPERPOWER IN FE/SECURITY

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Education

Yonsei University, Korea
Exchange program / 2022

The University of Hong Kong
Information Systems and second major in Computer Science / 2015 - 2017 (military service: 2017 - 2019)

Experience

Security researcher (hackerone, bugcrowd, naver/whale bug bounty, nokia, ...)
Sep 2021– Jan 2022

- Reported security vulnerabilities and received bounties from some of the companies/products not limited to: AT&T, Slack, Github, Naver, Whale Browser, Riot Games, Canva, Nokia, Logitech, Basecamp. Some companies were yet to have official bug bounty programs, thereby unable to be disclosed of names.
- Used tech: bash, docker, python, Kali linux, Golang, Javascript, hacking analysis tools

Presence Labs, Inc (presence.so)
Lead software engineer, Fullstack / Nov 2020 – Sep 2021

- Led a small team of three
- Achieved 50% increase in performance by undergoing a complete rewrite of frontend from PHP-based web app to a very strictly typed Typescript React app.
- Configured best-practice CI/CD for testing, web deployment, Electron build, code signing and deployment for all OS's, all done through the scripts on CircleCI and Github Actions.
- Created and deployed several REST endpoints based on Node.js for WebRTC connection with IaC tools on AWS
- Used tech: CI/CD (CircleCI and Github Actions), AWS Amplify, S3, ECS(Fargate) and ECR(Docker), Route53, Elastic Transcoder, Lambda (SAM CLI) & API Gateway, Redis, CDK, Terraform, Github Registry, Node.js, ws, Typescript, Storybook, React, styled-components, styled-system, Redux, Redux-saga, custom Redux middlewares, typesafe-actions, reselect, redux-persist, Electron, Webpack, Jest, Enzyme, WebRTC, WebSocket, socket.io, Lerna, to anything else that the team needs.

Angelswing, Inc (angelswing.io)
Frontend team lead / Jan 2020 – Nov 2020

- Built up the team of six from scratch, managed communications and logistics – e.g. Introduced programming conventions.
- Boosted web performance by 10% using Chrome's performance tools, React optimization techniques
- Reduced deployment time by 30% by improving CI/CD
- Successfully launched the new version of product at 2.0 with enitrely new UI/UX based on React & TS
- Maintained forks of open-source repositories for custom purposes

Frontend engineer / Sep 2019 – Jan 2020
- Worked on UI components and logics
- Set up E2E Testing for CI from scratch, increased automated testing coverage from 0% to 10%
- Used tech: React, Typescript, Jest, Puppeteer, Docker, CircleCI, Openlayers, Three.js, Cesium.js, RxJS, Redux, Storybook, Webpack, Redux-observable, Python, Node.js

CERT, Republic of Korea Navy (navy.mil.kr)

Software engineer / Oct 2017 – Aug 2019
- Achieved 0% to 100% automation on repetitive processes such as virus log querying, email blocklisting, device control system monitoring
- Monitored, tracked, and prevented harmful network traffics and activities using firewall and packet sniffing tools (Other operations are classified)
- Used tech: bash, Javascript, Linux, network analysis tools

Gööp, Inc (hk.goop.ai/feed)

Web developer / Apr 2017 – May 2017
- Developed the landing webpage
- Designed the logo and the webpage prototype

Projects

- Youtube Lite: Simpler version of YouTube
- elasticpwn: full-stack security research project on Elasticsearch
- as-pect: blazing fast testing with Assemblyscript; 3rd biggest contributor of all time. I contributed to many other open-source projects (check on Github)
- UI Theory: React in vanilla JS
- atm: automated scripts for hacking – hallmark of my bash skills
- async-jobs: centralized management of async jobs in JS
- png-rs: wasm-first PNG decoder in Rust
- @graphcentral/graph: Performant graph visualization on the web with WebGL + Webworkers + IndexedDB
- @graphcentral/notion: Knowledge graph utilities for Notion

Awards

- Runner-up at Military Open-Source SW Competition / Nov 2018
- 1st place in the ROK & US Navy Cyber Defense Contest / May 2018
- HKU Foundation Scholarship for Outstanding International Students / May 2015

Certifications

- TOEFL: 111; TOEIC: 990;