

# Mahdi Hoseini

SENIOR FRONT END ENGINEER

Tehran, Iran

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## Summary

Senior Front-End Engineer with **5+ years** of experience building high-performance web applications using **JavaScript/TypeScript (React.js, Next.js)**. Skilled in crafting clean, efficient code and collaborating with cross-functional teams to deliver user-focused solutions while staying current with industry trends.

## Work Experience

### Shop-Ware

San Francisco, California, US

SENIOR FRONT END ENGINEER

Jun. 2022 - May. 2024

- Modernized front-end by migrating from Backbone to React, using webpack and feature flags, cutting initial load time by 20%.
- Revamped test suite by fixing flaky tests and restructuring E2E, integration, and unit tests, cutting CI/CD execution time by 25%.
- Enhanced the repair order page with code splitting and lazy loading, reducing load time by 40% for shop managers.
- Accelerated UI development by 25% by creating a reusable component library in Storybook, standardizing design patterns, and reducing redundant coding.
- Performed usability tests with shop users, shared feedback, increased dashboard satisfaction by 25%.
- Deployed a centralized monitoring environment (Grafana, InfluxDB, CollectD) which gathers system metrics as well as docker runtime metrics.

### Danggun Pay Inc. (KarrotPay)

Seoul, S.Korea

FOUNDING MEMBER & SITE RELIABILITY ENGINEER & INFRASTRUCTURE TEAM LEAD

Mar. 2021 - Jun. 2023

- Everything that matters.
- Designed and provisioned the entire infrastructure on the AWS cloud to meet security compliance and acquire a business license for financial services in Korea.
- Continuously improved the infrastructure architecture since launching the service. (currently 3.6 million users)
- Established a standardized base for declarative management of infrastructures and service deployments, enabling operational efficiency and consistency. Over 90% of AWS resources were all managed through standardized terraform modules. All add-ons and service workloads on the Kubernetes cluster were managed on a GitOps basis with Kustomize and ArgoCD.
- Saved over 30% of the overall AWS costs by establishing a quarterly purchasing strategy for RI (Reserved Instance) and SP (Savings Plan) and by introducing Graviton instances.
- Established a core architecture for regulating of outbound DNS traffic in multi-account and multi-VPC environments utilizing AWS Route53 DNS Firewall and FMS. This significantly increased the level of security confidence in the financial sector's segregated environment.
- Introduced Okta employee identity solution in the company, establishing security policies and configuring SSO integration with over 20 enterprise systems including AWS, GitHub, Slack, Google Workspace. Set up a Hub and Spoke architecture, enabling a collaborative account structure with the parent company, Daangn Market.

### Coffee

Perth, Western Australia, Australia

FRONT END ENGINEER

Sep. 2021 - May. 2022

- Developed B2B SaaS features using React, Next.js, and WebRTC, including real-time online meeting tools, boosting productivity by 15%.
- Refined front-end architecture by modularizing components and optimizing data handling with React-Query, speeding up page loads by 50% and cutting development time by 25%.
- Reduced bugs by 30% with Jest unit/integration tests, Cypress E2E testing, and Sentry error tracking, cutting resolution time by 10%.
- Spearheaded communication across cross-functional teams, streamlining navigation and cutting client workflow delays by 20%.

### Satek

Hamedan, Iran

FRONT END ENGINEER

Jun. 2019 - Sep. 2021

- Engineered B2B desktop applications using React, Redux, and Electron.js, streamlining client workflows for 5+ enterprise customers.
- Redesigned application architecture with modular components and reusable patterns, speeding development by 30% and cutting maintenance time by 25%.
- Mentored three junior developers through training, code reviews, and structured learning, boosting their delivery speed by 40%.

### Omnious. Co., Ltd.

Seoul, S.Korea

SOFTWARE ARCHITECT

Jun. 2017 - May. 2018

- Provisioned an easily manageable hybrid infrastructure (Amazon AWS + On-premise) utilizing IaC (Infrastructure as Code) tools like Ansible, Packer and Terraform.
- Built fully automated CI/CD pipelines on CircleCI for containerized applications using Docker, AWS ECR and Rancher.
- Designed an overall service architecture and pipelines of the Machine Learning based Fashion Tagging API SaaS product with the micro-services architecture.
- Implemented several API microservices in Node.js Koa and in the serverless AWS Lambda functions.
- Deployed a centralized logging environment (ELK, Filebeat, CloudWatch, S3) which gather log data from docker containers and AWS resources.
- Deployed a centralized monitoring environment (Grafana, InfluxDB, CollectD) which gather system metrics as well as docker run-time metrics.

## PLAT Corp.

CO-FOUNDER & SOFTWARE ENGINEER

Seoul, S.Korea

Jan. 2016 - Jun. 2017

- Implemented RESTful API server for car rental booking application(CARPLAT in Google Play).
- Built and deployed overall service infrastructure utilizing Docker container, CircleCI, and several AWS stack(Including EC2, ECS, Route 53, S3, CloudFront, RDS, ElastiCache, IAM), focusing on high-availability, fault tolerance, and auto-scaling.
- Developed an easy-to-use Payment module which connects to major PG(Payment Gateway) companies in Korea.

## R.O.K Cyber Command, MND

SOFTWARE ENGINEER & SECURITY RESEARCHER (COMPULSORY MILITARY SERVICE)

Seoul, S.Korea

Aug. 2014 - Apr. 2016

- Lead engineer on agent-less backtracking system that can discover client device's fingerprint(including public and private IP) independently of the Proxy, VPN and NAT.

## ShitOne Corp.

SOFTWARE ENGINEER

Seoul, S.Korea

Dec. 2011 - Feb. 2012

- Developed a proxy drive smartphone application which connects proxy driver and customer.
- Implemented overall Android application logic and wrote API server for community service, along with lead engineer who designed bidding protocol on raw socket and implemented API server for bidding.

# Honors & Awards

## INTERNATIONAL AWARDS

2021	<b>2nd Place</b> , AWS ASEAN AI/ML GameDay	Online
2020	<b>Finalist</b> , DEFCON 28th CTF Hacking Competition World Final	Las Vegas, U.S.A
2018	<b>Finalist</b> , DEFCON 26th CTF Hacking Competition World Final	Las Vegas, U.S.A
2017	<b>Finalist</b> , DEFCON 25th CTF Hacking Competition World Final	Las Vegas, U.S.A
2014	<b>Finalist</b> , DEFCON 22nd CTF Hacking Competition World Final	Las Vegas, U.S.A
2013	<b>Finalist</b> , DEFCON 21st CTF Hacking Competition World Final	Las Vegas, U.S.A
2011	<b>Finalist</b> , DEFCON 19th CTF Hacking Competition World Final	Las Vegas, U.S.A

## DOMESTIC AWARDS

2021	<b>2nd Place</b> , AWS Korea GameDay	Seoul, S.Korea
2015	<b>3rd Place</b> , WITHCON Hacking Competition Final	Seoul, S.Korea
2017	<b>Silver Prize</b> , KISA HDCON Hacking Competition Final	Seoul, S.Korea
2013	<b>Silver Prize</b> , KISA HDCON Hacking Competition Final	Seoul, S.Korea

## COMMUNITY

- 2022 - **AWS Community Builder (Container)**, Amazon Web Services (AWS)
- 2022 - **HashiCorp Ambassador**, HashiCorp
- 2018 - **Organizer of HashiCorp Korea User Group**, HashiCorp

# Certificates

- 2023 **AWS Certified Advanced Networking - Specialty**, Amazon Web Services (AWS)
- 2022 **AWS Certified Security - Specialty**, Amazon Web Services (AWS)
- 2022 **AWS Certified Solutions Architect – Professional**, Amazon Web Services (AWS)
- 2021 **AWS Certified SysOps Administrator – Associate**, Amazon Web Services (AWS)
- 2020 **Certified Kubernetes Application Developer (CKAD)**, The Linux Foundation
- 2023 **HashiCorp Certified: Consul Associate (002)**, HashiCorp
- 2023 **HashiCorp Certified: Terraform Associate (003)**, HashiCorp

# Education

## POSTECH(Pohang University of Science and Technology)

B.S. IN COMPUTER SCIENCE AND ENGINEERING

Pohang, S.Korea

Mar. 2010 - Aug. 2017

- Got a Chun Shin-Il Scholarship which is given to promising students in CSE Dept.