HOSSEIN MORADI

Senior Software Engineer @ Shopify

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HIGHLIGHTS

I am a highly accomplished and innovative Software Engineer with over **10 years of experience**, known for delivering complex projects that drive business growth. My **strong Mathematical background** and advanced proficiency in **JavaScript**, **Typescript**, **ReactJS**, and **NodeJS**, coupled with experience in **Python**, **Ruby**, **Ruby On Rails**, **PostgreSQL**, **Amazon Web Services (AWS)**, and **payment systems**, enable me to collaborate seamlessly with diverse teams, demonstrate exceptional problem-solving skills, and deliver high-quality products within deadlines. My career achievements include:

- Working on enabling the **Shop Pay checkout** for non-Shopify stores at Shopify's **checkout organization**. I **led** the consolidation of duplicate checkout applications, **collaborating across teams** for streamlined **execution**.
- Worked on **designing and creating** Thinkific Payments including **payment processing** and **checkout app** at Thinkific.
- Improving the **performance** of many frontend applications throughout my career including reducing the **page load time** of the checkout page at Thinkific by **more than 60%**.
- Delivering several projects using **Stripe payment system**, including integration of **Apple/Google Pay** payment methods at Thinkific, and **integrating the whole billing flow with Stripe** at BrowseAI.
- Developing **the first-ever** browser-based Turn-By-Turn Navigation engine using **MapboxGL** at Balad Maps & Navigation which required a **deep understanding** of **algorithms** and **data structures**.
- Leading migration of a **large E-Commerce platform** at Bamilo to use modern Frontend technologies and **scale the system** to handle Black Friday's **high traffic**.
- **Mentoring several Engineers** throughout my career to **teach** them modern frontend development and **help them learn and grow**.

LATEST PROFESSIONAL EXPERIENCE

Senior Software Engineer
December 2023 – Present 📅

Shopify
Vancouver, BC, Canada 📍

I'm currently part of the Shop Pay Off Shopify team, focused on enabling the Shop Pay **checkout** experience for non-Shopify stores. Our goal is to bring the best converging checkout experience to all online stores across the web.

- Led the initiative to **refactor** our checkout app, eliminating **duplicated code** and reusing existing components within the original Shop Pay app. **Collaborated** closely with managers, Staff, and Principal engineers **across the checkout team** at Shopify to ensure **seamless execution** and **alignment** with the team's technical vision.
- Implemented **Shop Pay Installments** in our app, enabling its benefits for non-Shopify stores and driving additional **revenue for Shopify**.
- Educated the Shop Pay Identity Team on the concept of **Browser Storage Partitioning**, enabling **secure** use of browser **LocalStorage/SessionStorage**, which improved buyer experience by reducing the need for **repeated logins**.

EDUCATION

🎓 Ph.D. drop-out in Applied Mathematics
Sharif University of Technology
2013 – 2016

🎓 Master of Science in Applied Mathematics
Sharif University of Technology
2011 – 2013

🎓 Bachelor Science in Applied Mathematics
Kharazmi University
2007 – 2011

TOP SKILLS

Frontend
Javascript ● Typescript ● React ● NextJs ● GatsbyJs ● HTML ● CSS ● SASS ● CSS in JS ● CSS Modules ● Atomic CSS ● Service Workers ● Progressive Web App (PWA)

Backend
NodeJs ● ExpressJs ● Redis ● MongoDB ● PostgreSQL ● Rest API ● GraphQL

Tool
Docker ● CI/CD ● NGINX ● Webpack ● Babel ● NPM ● Yarn ● Jest ● Cypress ● Git

Software
Amazon Web Services (AWS) ● Stripe ● OpenAI

Other
Scrum ● Agile ● Systems Design ● Algorithms ● TDD ● Unit tests ● Integration tests

FORMER PROFESSIONAL EXPERIENCE

Senior Software Engineer
August 2021 – December 2023 📅

Thinkific
Vancouver, BC, Canada 📍

I had the opportunity to join the renowned creator educator platform and ecosystem, Thinkific, a company with about **500 employees**, including a team of **200+ engineers**. Starting as a Senior Frontend Engineer, I quickly took on the challenge of learning **Ruby** and was **promoted** to Senior Fullstack Engineer to have a more significant impact on the product.

- Worked with a team of 10 in developing a comprehensive system for **collecting and remitting taxes** on behalf of our creators, enabling Thinkific to operate seamlessly as a marketplace platform.
- Collaborated with a **scrum team** of engineers, team leader, UX designer, and product manager on the checkout services in the **payments team**. I participated in **peer code reviews** and **agile team sessions** to ensure project success.
- Achieved a remarkable **60% reduction** in the checkout **page load time** by refactoring and enhancing it, resulting in under 1.5 seconds page load time from the previous 3+ seconds.
- Led the integration of **Apple/Google Pay payment methods**, enabling seamless and secure transactions for users.
- Led the payment part of an initiative for selling new product types, requiring constant **communication** with other engineering teams **across the company** to ensure smooth execution.

Senior Software Engineer (Short-term project)
January 2021 – July 2021 📅

BrowseAI
Vancouver, BC, Canada 📍

I joined BrowseAI, an **early-stage startup** that aims to make **web scraping** and **monitoring** accessible to everyone with **no code**. As a Fullstack Software Engineer, I worked on various aspects of the product.

- Integrated the **billing system** with **Stripe** to handle **checkout**, **subscription renewals**, and **cancellations**, making it possible for users to manage their own subscriptions.
- Improved the **performance** of the **browser extension** significantly by replacing an exponential **algorithm** with a linear one.
- Participated in **peer code reviews** and **scrum sessions** with the team to ensure high-quality code and collaboration.

Senior Software Engineer
June 2019 – January 2021 📅

Balad Maps & Navigation
Tehran, Iran 📍

Balad Maps & Navigation is a new service in Hezardastan Group, which holds two of the most popular services in Iran named CafeBazaar and Divar with more than **45 million active users** and **1000 employees**.

- Initiated the main website using **NextJs**, a React-based **server-side rendering (SSR)** framework.
- **Mentored** junior developers to help them learn and grow.
- Participated in **peer code reviews** and **scrum sessions** in the team.
- Wrote **the first-ever browser-based Turn-By-Turn Navigation engine** in a hackathon week, which required a **deep understanding** of **algorithms** and **data structures**.
- Made declarative React components and hooks for **MaoboxGL**'s imperative API to create custom map visualizations.
- Improved server response time by **caching** Server-Side Rendered (SSRed) pages using **Redis**, a popular in-memory data store.
- Utilized **Docker** to containerize the application and configured Gitlab's **CI/CD pipeline** to enable automated deployment.

FORMER PROFESSIONAL EXPERIENCE

Frontend Team Leader
Bamilo

November 2017 – March 2019 📅

Tehran, Iran 📍

I joined Bamilo, an E-Commerce marketplace with over **200 employees** and **50+ Engineers**, as a Senior Frontend Engineer with the goal of **leading a new project** using **modern frontend technologies**. In collaboration with product managers, designers, and multiple engineering teams, I initiated the development of Bamilo **PWA**, utilizing **React**, **Redux**, **Redux-Saga**, and **CSS Modules** combined with **Atomic CSS**. The project was heavily focused on performance, and the new pages I delivered **performed significantly better** compared to the old server-side project written in PHP and jQuery.

- Led and built a **super-high-performance PWA** with less than 7kb of CSS for the entire app, 120kb of Javascript for each page and a **page load time of about 0.5 seconds**.
- Worked in a team of 5 in **designing and scaling the backend system** to handle the **high traffic of the Black Friday campaign**, resulting in a smooth and successful shopping experience for **millions of customers** at Black Friday night.
- Utilized **Service Workers** to cache assets on client side, handle **offline mode**, and sync data between browser tabs, etc.
- **Mentored and taught** React, Redux, and modern frontend development tools to **several junior frontend developers** in the company, who joined the frontend team after nine months.
- **Interviewed and hired** new frontend developers and ultimately got **promoted to Frontend Team Leader** after eight months with **five frontend engineers** in the team.

Senior Frontend Software Engineer
Farakav

February 2017 – November 2017 📅

Tehran, Iran 📍

At Farakav, a media company that runs **the most popular web-based media in** the Persian-speaking world, I played a key role in ensuring that our web services were of the highest quality. With a team of over **20 engineers**, we worked on a wide range of projects and initiatives.

- Built a **NodeJs CLI package** using **Browserstack**, **NightWatchJs**, and **Selenium** that automated **end-to-end tests** on our supported browsers and devices, created daily reports, and sent them directly to our emails. Additionally, the package could run **screenshot tests** and **capture browser consoles for errors**, helping us to identify and address issues more quickly and effectively.
- **Automated build process** using **Grunt** in a couple of our projects, which made our **release processes** easier and more efficient.
- Worked on a few other projects using **Angular v1.x**, **JQuery**, and **Bootstrap**, creating highly-responsive and dynamic user interfaces.

Frontend Software Engineer
Previous Companies

2013 – February 2017 📅

Tehran, Iran 📍

I began my journey as a Frontend Engineer, learning **HTML**, **CSS**, **Javascript**, and **AngularJS**. I quickly became proficient in these technologies, contributing to projects like a travel booking website and financial projects with SharePoint in different companies.

- Developed **Single Page Apps** using **Angular v1.x**, **Angular Material**, **Bootstrap**, **Gulp**, and **Webpack**.
- Worked on an Admin Panel web app, which was a **real-time SPA** using **Web Socket** designed to enable SnappTrip's customer support team to handle new bookings and address customer issues quickly and efficiently.
- Expanded my skillset by learning **Python**, **PostgreSQL**, and **Selenium**, allowing me to make meaningful contributions to our **backend** projects.
- Utilized **charting libraries** such as **AMCharts** and **HighCharts** to create visually engaging **financial data visualizations**.
- Worked extensively with the **SharePoint REST API**, which was crucial to our work developing financial pages in **SharePoint**.
- Introduced my colleagues to **Git** and **helped them** become proficient in its use, leading to more streamlined and efficient project management.
- **Shared my knowledge** of Angular with colleagues, leading to a more collaborative and supportive team environment.
- Worked on a project to automate bank customer lines using **Microsoft Silverlight**, **C#**, and **RFID** technology.