

Menghong Chhay

Full Stack Developer 📞 (206)-388-6036 ✉ chhaymenghong@yahoo.com 🐙 github.com/chhaymenghong

Dedicated, passionate, and efficient Full Stack Developer with 4+ years of experience designing, and developing beautiful web, desktop, and mobile applications. In my free time, I enjoy using my coding knowledge to build productive and exciting tools that can make the lives of other people and mine less distracting and more liberating. I also enjoy learning new technologies daily

EXPERIENCE

NASA, Jet Propulsion Laboratory

Full Stack Developer 📅 09/2017 - Present 📍 Pasadena, CA

Worked in three teams over the years and contributed to the success of many ground system projects

- Designed and built a correlative and interactive telemetry visualization desktop application entirely from scratch using modern technologies such as **ElectronJS**, **Angular**, **Highcharts**, **Elasticsearch**, and **Kafka**. The tool can visualize both historical and real-time data, and was praised as "the best tool we wished we had a long time ago" by many Deep Space Network operators
- Wrote extensive integration tests for the tool using **Spectron** and **Mocha**
- Wrote various **NodeJS** scripts to automatically check and verify data integrity and compliance with the interface agreement
- Led the migration and modernization of many web applications to include modern build processes and up-to-date industry best practices which significantly improved their performance, maintainability, and deployment workflow. One of them involved migrating an **AngularJS 1.x** application to **Angular 7.x.x**
- Mentored interns and educated other team members about new technologies

APPTIO, Technology Business Management platform

Software Engineer 📅 03/2016 - 03/2017 📍 Bellevue, WA

- Collaborated effectively with different teams to create user-friendly UI
- Wrote multiple data migration scripts to help with the Backend migration
- Built and shipped many features that have a huge value for customers

University of Washington

Teaching Assistant (Computer Graphics) 📅 09/2015 - 12/2015 📍 Seattle, WA

Held office hours, and teaching sessions to help students with Computer Graphics concepts and their projects

APPTIO, Technology Business Management SASS platform

Software Engineering Intern 📅 06/2015 - 09/2015 📍 Bellevue, WA

- Worked in an agile environment to triage tickets, fix bugs, and add features
- Built and shipped a major feature that had high value for customers using the **Dojo** UI framework, **Highcharts**, **Spring MVC**, and **MySQL**

SIDE PROJECTS

🛒 Foreverbloomkh.com

Designed and built an entire e-commerce shopping platform from scratch which includes a consumer-facing Single Page Application (SPA), an inventory management system for employees, and a serverless backend using **Firebase Ecosystem**, **Angular**, **Stripe** for accepting payment, **Twilio**, **Sendgrid**, **Discord**, and other technologies

🗨️ Discord message relay

Built a desktop application to relay messages from any third-party "paid to join" Discord server to my server which I can share with others for free. Built using **Puppeteer**, **Puppeteer Stealth** plugin, **ElectronJS**, **Angular**, and other technologies

🌐 Website crawlers

Built many crawlers from scratch that can crawl and extract metadata and images from websites that sell cosmetics, clothes, and cars. Built with **Puppeteer**, **Sharp**, **Google Cloud Storage**, **Firebase Ecosystem**, **Cheerio**, **Webp-converter**, and **Axios**. The tool also maintains a list of proxies that can be used to get around bot detection and server throttling mechanism. Ideal for seeding new platform's database for reselling products online in a different geographically region

EDUCATION

University of Washington

BS in Computer Science 📅 2012 - 2016 📍 Seattle, WA

SKILLS

Frontend

HTML5	CSS3	SASS	Typescript
Javascript	Angular	AngularJS	
Angular Material	Ionic	RxJS	Highcharts
Vis.js	D3.js	JQuery	

Backend

NodeJS	ElectronJS	ExpressJS	Socket.IO
MongoDB	MySQL	Elasticsearch	Kafka
Kibana	Firestore	Google Cloud Storage	
Firebase hosting	Firebase Cloud Function		
Firebase OAuth			

Test / Automation

Spectron	Puppeteer	Mocha	Sinon
Chai	Jasmine	Webpack	Grunt
Cypress	PM2	Docker	

Third-party integration

Stripe	Algolia	Twilio	Sendgrid
Discord.js			

🤖 Athena, Discord bot

Created a bot that can help students find online solutions to homework problems. Built with **Discord.js**, **NodeJS**, **Puppeteer**, **Puppeteer Stealth** plugin, and other technologies

🤖 Medium.com aggregating bot

Built a bot that can detect new articles posted by any authors on Medium.com and forward them to a Discord server. Ideal for filtering and aggregating news that I care about especially upcoming crypto token listings on Coinbase.com. Built and deployed with **Puppeteer**, **NodeJS**, and **PM2**

📱 Food Facts Mobile application

A mobile application built with the **Ionic** framework that shows detailed nutritional facts for common food and raw ingredients using the U.S Department of Agriculture Food database Rest API