

# MATTHEW CHEN (Open to Relocation + Hybrid/Onsite)

## CAREER SUMMARY

Highly skilled and innovative Full Stack Developer with expertise in various programming languages and technologies. Proven track record of delivering cutting-edge UI components, leading teams to increased productivity, and spearheading impactful open-source projects. Adept at streamlining processes, driving efficiency gains, and providing strategic solutions to Fortune 500 clients.

## CORE COMPETENCIES AND SKILLS

**Programming Languages:** JavaScript | Python | Java | C++ | TypeScript | Terraform | HTML/CSS

**Technologies:** React.js | Redux | Vue.js | Node.js | Express | Bootstrap | SASS | Webpack/Vite | Next.js | AWS | Docker | Git | RESTful APIs | Babel | Django | SEO | Jest | Mocha | HTTP | Stripe | Flask | Kubernetes | MongoDB | SwaggerUI | Storybook.js | Tensorflow | Styled Components | React Server Components | Server-Side Rendering | SQL | SQLite

## PROFESSIONAL EXPERIENCE

### *Software Engineer, Dataworks Visualization Team | Aspen Technologies*

*Jun 2023 - Present*

- Engineered groundbreaking UI components, resulting in a 30% improvement in efficiency and a 25% reduction in load times
- Mentored and guided team members, contributing to a 20% increase in team productivity
- Resolved critical Vue.js and Typescript issues within a Web-Based Graphics App
- Executed rigorous software testing, achieving a 95% test coverage and identifying 80% of bugs before deployment

### *Software Developer, Cloud Engineering Team | IBM - Austin, TX*

*Aug 2022 - Jun 2023*

- Developed, tested, and debugged UI components, resulting in a 40% increase in project efficiency
- Orchestrated the configuration and provisioning of Cloud Computing environments utilizing Terraform and HCL, streamlining deployment processes by 50%
- Designed and built out RESTful APIs with Python Flask, and database connections
- Contributed to the open-source community by releasing custom React UI components on IBM's public GitHub
- Successfully slashed client onboarding time from 7 weeks to 1-2 weeks, resulting in a 60% increase in client satisfaction
- Provided strategic solutions to multiple Fortune 500 clients, addressing their requests with various IBM Cloud technologies, Schematics and Blueprints, and Red Hat Openshift

### *Software Developer Intern, Space Tech Team | IBM - Austin, TX (remote)*

*May 2021 - Aug 2021*

- Developed a website, enabling users to sign up for CubeSat satellite launch updates, achieving a 50% increase in engagement
- Spearheaded the creation of an open-source deep-learning object detection project
- Established a streamlined PlasticNet machine learning pipeline accessible through CLI, facilitating effortless model training and testing, leading to a 30% reduction in development time

### *Software Developer Intern, Parasol Research Laboratory | Texas A&M University - College Station, TX*

*May 2019 - Aug 2019*

- Utilized C++ for multithreaded programming to detect race conditions

## PROJECTS

### Sapphire By The Sea

- Developed a full-stack direct booking platform for short-term rental property, enabling guests to make payments securely
- Integrated Stripe API for payment handling and identification verification, along with PriceLabs API, Google Maps API, Google ReCAPTCHA v3, and Esignature.io for enhanced functionality
- Employed React + Bootstrap for front-end and Express (Node.js) for back-end, integrating Stripe API for Payment

### Collaborative Document Editor Project

- Created a Collaborative Document Editing application mimicking Google Docs, using React, TypeScript, Vite, WebSockets, MaterialUI, ReactQuill, Node.js, Express, SQLite, and JWT
- Users can register, log-in, create documents, delete documents, edit documents, and share documents

### Airbnb Search and Scraper

- Executes Airbnb searches, accurately determining the page placement of your listing
- Scrapes comprehensive data on your listing and others in the search results, efficiently storing it in both .csv and .txt file formats for analysis and reference

### IBM/Plastic Net

- Created an open-source project to build AI object detection models for classifying plastics, trash on beaches, and ocean debris

### Help Desk Ticket System Project

- Practice full-stack project, users can submit support tickets, and admins can respond to tickets and update ticket status
- React + TypeScript + Vite frontend, Node.js + Express MVC backend, and MongoDB storage

## EDUCATION AND CERTIFICATION

- Bachelor of Science - Computer Science, Texas A&M University
- IBM Cloud Kubernetes and Containers Essentials (2022)
- IBM Cloud Microservices Essentials (2022)
- TypeScript Essentials - Codecademy Certificate of Completion (2024)