Han Chen

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EXPERIENCE

AECOM Tishman   Aug. 2024 - Present

Technical Lead (Full-Time Contract) **|** *Python | REST API | Django | ETL | DevOps*

- Led a team of 5 engineers to design and implement a Data Integration Platform using **Python** and cloud solutions, optimizing **ETL** workflows for large datasets with automated validation and multi-threading.
- Automated Procore submittal extraction using **Python**, **Jinja2**, **Pyppeteer**, and **REST APIs**, streamlining large-scale submittal processing, API integration, and dynamic PDF generation, cutting processing time by 80%.
- Enhanced **API** performance by 90% through request throttling and parallel processing, improving query responses by 60% via **SQL** optimizations, significantly reducing downtime and increasing client satisfaction.

Port Authority of NY NJ   Feb. 2023 – Aug. 2024

Full Stack Software Engineer (Full-Time Contract) **|** *React | .NET | TypeScript | SQL | CI/CD*

- Led development of a PMIS system using **React** and **.NET**, deployed on **Azure DevOps** with **CI/CD** pipelines.
- Migrated a legacy **.NET** Core backend (v3.14 to v8), resolving 150+ compatibility issues and increasing system performance by 35% while upgrading security protocols, leading to a 30% decrease in system errors.
- Developed scalable **RESTful APIs** using **C#** and **SQL Server** to streamline **CRUD** operations, enhancing data flow efficiency, and boosting system reliability by over 30%.
- Created a Workforce Management System using **SPFX** and **TypeScript**, automating employee tracking, boosting staff utilization by over 20%.
- Developed and maintained **CI/CD** pipelines using **Azure DevOps**, automating build, test, and deployment processes across environments. Implemented automated testing, code linting, and security checks, ensuring flawless deployments.
- Enhanced **UI/UX** for internal tools using **React**, optimized performance through lazy loading techniques, leading to an 80% increase in user engagement and reducing system load times by over 50%.

DBC Education and Tech Co. – Remote   Aug 2021 – Aug 2022

Programming Instructor **|** Python | SQL | Pandas | NumPy | OOP

- Designed and delivered a comprehensive data analysis curriculum for undergraduate and graduate students, covering **Python**, **SQL**, **Pandas**, **NumPy**, Data Visualization, and object-oriented programming, empowering students with industry-relevant skills.

TECHNICAL SKILLS

Programming Languages: JavaScript, TypeScript, Python, C#, Ruby, SQL, CSS, HTML, Command Line

Frameworks: React, Angular, Next.js, ASP .NET, Ruby on Rails, Express.js, Node.js, MERN, Django

Technologies: Redux, Tailwind, Media Query, AWS, Azure, DevOps, CI/CD, Webpack, REST API, OOP, MongoDB, PostgreSQL, Google Maps APIs, SQL Server, Git, Pandas, NumPy, Selenium, Power BI

PROJECTS

HanChen.dev – *web-responsive site* – **Next.js**, **TypeScript**, **Tailwind**, **Framer Motion**   Live Site **|** GitHub

Cozybnb – *Full stack web-responsive application*   Live Site **|** GitHub

- Built a pixel-perfect Airbnb clone using **React Hooks**, **Redux**, **AWS S3**, **Google Maps APIs**, and **Ruby on Rails** backend with full **CRUD** operations, optimizing responsiveness across devices.

Aviquest – *Full stack desktop application*   Live Site **|** GitHub

- Led a team of 4 to develop a **MERN**-based gamified task manager with to-do lists, character customization, and a rewards system, optimizing data storage and retrieval with **Express** and **MongoDB**.

EDUCATION

App Academy – *In-person Curriculum (**Ruby on Rails, JavaScript**)*   **New York, NY** Aug 2022 – Dec 2022

New York University - Tandon School of Engineering *B.A.S in Technology Management (STEM)*   **New York, NY**