

# Han Chen

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## EXPERIENCE

### Port Authority of NY NJ

Feb. 2023 – Aug. 2024, Jan. 2025 – Present

**Senior Full Stack Developer** (Full-Time Contract via Stellar Services) – React | .NET | TypeScript | SQL | CI/CD

- Led development of a PMIS system using **React** and **.NET**, deployed on **Azure DevOps** with **CI/CD** pipelines.
- Designed and developed a scalable backend with **C#** and **RESTful APIs**, optimizing **SQL Server** interactions for efficient data retrieval with robust validations, enhancing data integrity and system reliability.
- Migrated a legacy **.NET** Core backend (v3.14 to v8), resolving 150+ compatibility issues and reducing system load times by over 30% while upgrading security protocols, leading to over 25% increase in development efficiency.
- Built **CI/CD** pipelines using **Azure DevOps**, automating build, test, and deployment processes across environments. Implemented branch protection and code review, optimizing the software development life cycle (SDLC).
- Enhanced the **UI/UX** of internal tools using **React**, optimized performance through lazy loading techniques, creating pixel perfect implementation of the updated design with over 50% reduction in system load times.
- Built **ERP** system tools including Job Management and Budget Reporting using **SPFX**, **TypeScript**, and **SharePoint Lists**, automating job tracking and reporting, boosting job allocation by over 15%.

### AECOM Tishman

Aug. 2024 – Jan. 2025

**Senior Software Engineer** (Full-Time Contract via Stellar Services) – Python | REST API | Automation | Azure Cloud Services

- Created an automated data reporting system using **Python (pandas, NumPy)**, **Azure Functions**, and **MS Power Automate** to generate and distribute weekly reports with key project financial metrics, enabling real-time insights.
- Built a data extraction automation tool that streamlined the extraction of 300+ GB of document data per project from Procore PMIS (Project Management Information System). Utilized Python libraries (**Jinja2**, **Pypeteer**, **openpyxl**), and **REST APIs** to eliminate manual processes, significantly improving efficiency and accuracy.
- Optimized system **API** performance by over 70% through parallel processing and data **caching**. Eliminated costly data queries with **SQL** optimizations, enhancing system performance while reducing costs by more than 20%.

### 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 Cloud Services, 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 portfolio site – **Next.js**, **TypeScript**, **Tailwind**, **Framer Motion**

[Live Site](#) | [GitHub](#)

**Cozybnb** – Full stack web-responsive application

[Live Site](#) | [GitHub](#)

- Built a web responsive Airbnb clone using **React Hooks**, **Redux**, **AWS S3**, **Google Maps APIs**, and **Ruby on Rails** backend with full **CRUD** operations, featuring interactive custom components.

**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** 2015