

Max Shi

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SKILLS

Languages and Frameworks

Typescript (Angular, React), Javascript, Python (Bottle), Java, C++, HTML, CSS (Sass), NgRx, Redux, PostgreSQL, Kafka, Express.js, Jest, Firebase, MongoDB, NextJS, Cypress, Storybook

Operating Systems and Software

Windows, Linux, Visual Studio Code, Webstorm, Pycharm, Git, Jira, Auth0, Salesforce, Heroku, Heroku Connect, CircleCI, Datadog, Docker, Airflow, Google Cloud, Vercel, Percy

Software Development Skills/Concepts

Unit/Functional/End-to-end Testing, Test-Driven Development, Microservices, Hexagonal architecture, Orchestrator pattern

WORK EXPERIENCE

Software Engineer, *Orchard, New York, NY*

July 2022 – present

- Worked in **Angular** frontends with **NgRx** and **Python** microservice backends with **Kafka** and **PostgreSQL**, supported by **Airflow** for cronjobs and **Cypress** and **Jest** for unit, functional, and end-to-end testing on two consumer-facing teams
- Led project with over 40 company stakeholders to develop partner program to drive ~\$1M/year revenue on rejected leads
- Owned 4 core features of flagship instant mortgage pre-qualification, including implementation of proprietary calculations
- Onboarded peer engineer onto the team, with systems introduction, mentorship, weekly pairing, and pull request feedback
- Remediated broken feature that impacted >1k customers, developing backfill and reworking flow to balance system load
- Configured Datadog monitoring to ensure transparency of errors, secure sensitive data, and enforce 1-week business SLA

Internal Audit Technology Summer Analyst, *Goldman Sachs, New York, NY*

June 2021 – August 2021

- Assessed risk controls in 5 different systems within the Global Markets FICC technology space in complex financial flows
- Led stakeholder and team discussion meetings to reconcile technical findings into business risk and remediation plans
- Created materials to uplift the Continuous Monitoring process regarding data presentation and new agile framework
- Diagnosed issues and remediations in 3 systems with code reviews (CR) and developed feedback to streamline CR process

Software Developer Intern, *TD Ameritrade, Jersey City, NJ*

May 2020 – August 2020

- Practiced test-driven development, dependency injection, clean code working in **Node.js** using **React**, **Jest**, **Express**
- Created responsive frontend styling, new user interface components, and service connections to backend products
- Programmed in pairs and independently to push 65+ stories and 100+ commits to production codebase over 5 releases

Course Assistant, *Stevens Institute of Technology, Hoboken, NJ*

August 2019 – May 2022

- Guided students in 6 core CS classes: Intro, Data Structures, Algorithms, Automata, Systems Prog., Operating Systems
- Led office hours, homework and test preparation sessions, grading, and student communications toward 85% pass rate

PERSONAL PROJECTS

pentaku, *Personal Project*

November 2022 – present

- Founded project that allows for embedded note taking within a logical mind-map to easily organize thoughts and logic
- Developed CI pipelines with **Github Actions** to auto-deploy **React** and **Express** apps to **Firebase Hosting** and **GCloud Run**
- Implemented with **React Redux**, **Express**, and **Jest** in **Typescript**, integrating **Firebase**, **Material UI**, and **RTK Query**

DigitalCoach, *Senior Design Project, Stevens Institute of Technology, Hoboken, NJ*

August 2021 – May 2022

- Led full-stack web development in team of 6 to develop a website allowing users to practice interviews with AI feedback
- Developed using **NextJS**, atomic design patterns, and react-query interacting with **Firebase Firestore**, deployed with **Vercel**
- Demoed MVP with video recording, submitting to backend ML API, and displaying feedback to win “Best Project in CS”

shifts, *Web Programming II Final Project, Stevens Institute of Technology, Hoboken, NJ*

February 2021 – May 2021

- Developed in team of 4 a stock market social media chat platform to discuss market news and share insight into investments
- Implemented **Socket.io**, **Firebase authentication**, **React** components and design, **Recharts**, and **GraphQL** logic on frontend
- Supported backend Worker integration to pass data with Socket.io by developing and implementing messaging protocol
- Configured and deployed monorepo to **Heroku** in two different frontend/backend apps with hidden credential files

EDUCATION

Stevens Institute of Technology, *Hoboken, New Jersey*

August 2018 – May 2022

Bachelor of Science, Computer Science, Minors in Mathematics and Chemistry

GPA: 3.99/4.00

U.S. Citizen