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## **Employment**

Home Depot (Contract) - Senior Software Engineer: Store Systems (Spring, Java, React)

(Oct 2023 - Present)

- Introduced WSL configuration to department for enhanced dev experience for Windows users.
  - Reduced dev effort for local utilities via aggregation and conversion of common Postman, zip file, and batch processes into Bash scripts for easy execution.
  - Added configs, scripts, and .profile logic to the onboarding docs for current and future devs to reference.
- Added HD Wallet/Pass features for both point-of-sale and self-checkout.
  - Allowed applicable customers to log in and use their saved payment information.
  - While still a WIP, this included the back-end wiring for logging in as well as the front-end displays for executing HD Pass payments.
- Improved customer-lookup functionality, WebSocket communication, Mixpanel event logging, and Cypress end-to-end tests.

#### Nextdoor - Lead Front-end Architect (React, TypeScript, Flow, RTK, AWS, Bash, Docker) (June 2021 – Sept 2022)

- Served at the intersection between front-end, back-end, pipelines, Bash/dev env, and Docker configuration, flowing wherever needed.
- Founded isomorphic SSR/CSR codebase for entire site, accelerating build speed, client performance, and pipeline parallelization.
  - Reduced local dev resource consumption by 70% via novel dev-server to replace cumbersome Docker/Python/Webpack combo, improving dev experience and productivity across the entire company.
  - Unified state and file structure, aggregating common needs for many departments into a single source of truth.
  - Solved org-wide unit-test issues plaguing devs for years in a matter of weeks via customizable util functions for async logic, user interactions, redirects, and mocks.
- **Mediated org's lack of QA** by building a custom system utilizing Docker for running the prod environment locally with your own code injected, allowing sensitive logic to be verified before CD deployment.
- Converted entire site from Flow to TypeScript, consisting of millions of lines of code via homebrewed AST parser util.
- Constructed 5-year roadmap to improve app performance and developer experience.
  - Executed complete website analysis to discover and fix the largest CI/CD bottlenecks.
  - Laid out instructions/metrics for transitioning from a monolithic structure to micro-frontends.
  - Split shared component library to separate repo, published to AWS private registry, installed as dep in parents, and added local dev utils for auto-auth renewals.

#### E-Trade - Senior Full-Stack Software Engineer (React/JavaScript, Spring/Java, Oracle/SQL) (July 2018 – June 2021)

- Mediated company-wide network issues in personal time via novel MockRequests library (see Open-source below).
  - Eliminated largest front-end blocker in the company: server rolls occurring twice per week that disable all API endpoints.
  - Improved developer productivity by 40%.
  - Included in company-wide React/SCSS design-language library/boilerplate due to its efficiency.
- Built 2 platforms for creating investment plans (first year netted \$2.5 million, +37% purchases, +15% new customers).
  - Boosted client performance by 50% through restructuring React/MobX global state management.
  - Enhanced server scalability by optimizing data aggregation logic and introducing multithreading.
  - Leveraged design pattern acumen to simplify client-server-DB communication by restructuring Spring DAOs, DTOs, & logic.
- Augmented Java endpoint performance by introducing multithreading.
  - Utilized asynchronous Spring logic to streamline network/DB requests.
  - Added custom utilities to improve handling of async functionality in parent code.
- Fostered a culture of learning and growth in the organization's developer community.
  - Primary mentor for onboarding all new hires, including sessions for teaching git, libraries, and the development stack.
  - Optimized team productivity by engineering scripts for automating tasks, including Jira ticket autocompletion in git, using local text editors/IDEs to code on remote servers, remote file exchanges, cookie extraction/refresh during development, etc.
  - Served as a panel leader and contact point for the intern class of summer 2019.
  - Inspired deeper collaboration across various Slack channels, leading to improvements in coding practices.

#### E-Trade - Android Engineer (Java, Internship) < Google Play App>

(June - Aug. 2017)

- Pioneered E-Trade's first Android Edge panel widget that displayed a user's watch lists and respective stock data.
- Orchestrated the state management, authentication, and caching systems; Coordinated UI/UX design and testing.
- Facilitated a seamless MVP hand-off to maintainers by writing guides, documentation, and descriptive git commit messages.

## **Open-source**

MockRequests (JavaScript) <a href="https://npmjs.com/package/mock-requests">https://npmjs.com/package/mock-requests</a>

(Sept. 2019)

- Launched the first lightweight, yet powerful, mocking library that doesn't require changing source code or running local servers.
- Boasts features other solutions seldom support: Simple one-step configuration that automatically works throughout the entire application, language/library/environment agnostic, exceptionally performant, toggling mocks via CLI.

## **Projects**

Anime Atsume (React/TypeScript, Spring Boot/Java) <a href="https://github.com/D-Pow/anime-atsume">https://github.com/D-Pow/anime-atsume</a>

(June - July 2020)

- Unique anime search engine providing the quickest possible path from searching titles to watching episodes, unlike most sites.
- Full-stack: PWA SPA React front-end, Spring Boot back-end, Docker container, AWS host, GitHub Actions CI/CD.

Picture Place (React Native, Ionic, PWA, TypeScript)

(June 2022 – Present)

- Mobile app to automatically scan images taken of restaurants/menus, classify them with AI to add tags (cuisine, price, atmosphere, quality, etc.), and add them to an interactive map of places you want to visit.
- Written as both a native app and PWA for cross-platform usability.

Research – Atoms of Confusion (C, PHP, HTML/CSS) <a href="https://atomsofconfusion.com">https://atomsofconfusion.com</a>

(Aug. 2016 – May 2018)

• Determined code patterns that are objectively confusing, with implications for improving design principles and specifications.

#### **Education**

NYU Tandon School of Engineering - GPA: 3.8/4.0

New College of Florida, the State's Honors College

Master of Science in Computer Science (May 2018) Brooklyn, NY

Bachelor of Arts in Chemistry (May 2016) Sarasota, FL

#### **Skills**

Languages

JavaScript/TypeScript, Java, HTML, SCSS, Python, SQL, PHP, LaTeX.

Technology

React, Spring Boot, Git, RTK, MobX, Webpack, Jest, JUnit, Gradle, Maven, Linux, Bash, Regex, Docker, Oracle DB, Agile (Scrum), GitHub, BitBucket, Jira, CI/CD (GH Actions, CircleCI, Jenkins), AWS, GCP, Heroku, Automation Testing.

## **Additional Relevant Activities**

<u>Eagle Scout</u> (2011): Highest rank, top 2% of all Boy Scouts. Cyber Security Club (Sept. 2016 – May 2017).

<u>NYU Healthcare Hackathon Winner</u> (Nov. 2016). Japanese (2019 – Present): Approaching N5 fluency.