

TECHNICAL SKILLS

**Programming Languages:** JavaScript, Python, C

**Cloud Deployment and Technologies:** DevOps, Docker, Git, feature branch workflow, AWS (EC2)

**Database Concepts and Technologies:** SQL, NoSQL, MongoDB, PostgreSQL, MySQL, Entity Relationship Diagrams, Database scaling

**Server-Side Concepts and Technologies:** Node.js, Express.js, MVC, Stress Testing & Scalability, NGINX load-balancing

**Client-Side Concepts and Technologies:** HTML5/CSS3, DOM & DOM API, Event Listeners, React.js, Tailwind, AJAX / Fetch, Component-Based Architecture

**Fundamentals of Computer Science:** Data Structures, Algorithms, Object-oriented design, ORM/ODMs

RELEVANT PROJECTS

www.playheadliners.com | Fullstack Engineer | Github | ReactJS, ExpressJS, PostgreSQL, Railway, Cloudflare

Mar '24 - Present

Daily music trivia game using Spotify's API

- Implemented targeted refactors to achieve a perfect **100% Lighthouse Score** for **Performance, Accessibility, Best Practices, and SEO** with both a FCP *and* LCP of 0.6s
- Applied feedback from client and beta testers, leading to an implementation of five new features, encouraging daily repeat use
- Built interactive interface with Spotify API and a daily updating API to encourage return views, averaging 100+ unique visitors a day according to Cloudflare metrics

ManorMatch | Fullstack Engineer | Github | ReactJS, ExpressJS, Vite, MongoDB, Tailwind, AWS (EC2)

Apr '24

A web-based service that connects homeowners with professionals for upscale home management and maintenance.

- Led a team of **7 full-stack engineers**, integrating **9 intricately-woven features**, including live chat & user authentication, while maintaining a CI/CD pipeline to deliver an intuitive and easy-to-use application
- Spearheaded a **visually captivating 4K video Landing Page**, integrating high-resolution images & modern layout design to guide users effortlessly into the site

Atelier eCommerce Modernization | Front End Engineer | Github | ReactJS, NodeJS, AWS (EC2)

Mar '24

Gorgeous, easy-to-use, e-commerce site for customers to make informed purchasing decisions.

- Integrated 7 features in **React** for filtering Ratings & Reviews, simplifying navigation process by providing immediate access to relevant information leading to increased satisfaction with the platform.
- Engineered unit testing with **Jest** and **React-Testing-Library**, facilitating **85% component-based test coverage** enabling a robust deployment
- Audited and refactored server-side requests and project dependencies leading to a **10% increase in FCP and LCP**

SuperFastServer | Backend Engineer | Github | ExpressJS, AWS EC2, PostgreSQL, Nginx

Mar '24

Migrated an eCommerce site from a Monolithic Architecture to a Service Oriented Architecture.

- Reduced latency on database requests over 12,000% -- from 10,035 ms to 81 ms -- by indexing columns on **Postgres** tables to increase performance of complex queries joining multiple vast datasets
- Accelerated the throughput on targeted fetch requests over 300%, to 8,000 requests-per-second, by scaling to **4 EC2** servers with an **NGINX** load balancer
- Diagnosed a critical bottleneck in latency through stress-testing. Increasing database max connections optimized throughput to **8,500 requests-per-second** with a latency of 61 ms and a **0% error rate**

PROFESSIONAL EXPERIENCE

Hack Reactor | Support Engineer Immersive Resident

Apr '24 - Present

- Provided personalized guidance during **one-on-one office hours & workshops with students**, offering insights on engineering workflows, system design, & design patterns to enhance their project development process
- Responded to Helpdesk queries** within 5 minutes and **Cleared Helpdesk tickets** with 100% success rate in an average of <15 minutes.

Shapell Investment Properties | Accounts Payable | Office Administrator

Jan '18 - Apr '24

- Developed software using **Flask** and **SQL** for document distribution to decrease time spent on repetitive tasks by **90%**
- Approved **weekly** accounting **deliverables** for over 1,200 apartment units with precision and strong attention to detail
- Oversaw corporate office expansion project, coordinating between the CEO and subcontractors while managing multiple deadlines and budgets, ultimately **increasing executive office capacity** by 60%

EDUCATION

Hack Reactor | Advanced Software Engineering Certificate

Apr '24

- Training in JavaScript, React, Express, PostgreSQL, MongoDB, and MySQL in an Agile environment | Solo coding, pair programming, and team collaboration

HarvardX | CS50x Introduction to Computer Science

Jun '23

- Training in C, Python, SQLite, JavaScript, jQuery, HTML, CSS and Flask in an online, self-driven environment

University of Illinois Urbana-Champaign | BA Liberal Arts and Science | Interdisciplinary Studies

Apr '09

- Relevant coursework: Calculus of Several Variables, Fundamental Mathematics, Linear Algebra | Honors: High Distinction