GARRET HORNBY

Ponchatoula, Louisiana | 504-208-5892| hi@garretjames.com | <u>Portfolio</u> | <u>LinkedIn</u>

Senior Software Engineer | Principal Engineer

Accomplished Full Stack Engineer with extensive experience in designing, developing, and maintaining scalable, user-centric web applications. Proficient in modern frameworks and technologies, including NextJS, NodeJS, TypeScript, React, and Python, with expertise in creating dynamic front-end interfaces and robust back-end solutions. Experienced in combining cutting-edge technology and design to build intuitive, high-quality, and AI-driven user experiences. Skilled in leading full project lifecycles from concept to deployment and mentoring teams to implement best practices in web development. Expertise includes integrating third-party APIs, implementing real-time systems, and building high-performance backend architectures. Strong in Agile methodologies, cross-functional collaboration, and delivering impactful products that improve user productivity and organizational efficiency. Committed to continuous learning, innovation, and enhancing application performance and user satisfaction.

CORE COMPETENCIES

- Full Stack Development
- Software Architecture & Design
- Project Ownership & Leadership
- Agile Development & Practices
- Strategic Planning & Execution

- API Development & Integration
- Software Testing & Debugging
- AI-Powered Applications
- Rapid Prototyping & Iteration
- App Development & Maintenance

- Product Design & Execution
- Team Mentoring & Leadership
- Data Analysis & Reporting
- Stakeholder Management
- Cross-functional Collaboration

PROFESSIONAL EXPERIENCE

Co-Lead Full Stack Engineer / Architect | FetchIt, Remote   February 2024 – Present

- Co-led the development and architecture of Fetchit's AI-driven educational platform, leveraging React and TypeScript to enhance user engagement and streamline the user experience.
- Played a pivotal role in designing and developing the architecture for Fetchit's AI-driven platform, creating a flexible and scalable system that accommodates future growth and integrates seamlessly with third-party educational tools and services.
- Led and managed agile sprint cycles, coordinating between development and product teams to ensure timely delivery of features.
- Collaborated with a cross-functional team to design, build, and maintain scalable Python APIs, ensuring seamless data integration across diverse platform components.
- Implemented Jest and Cypress for front-end testing and PyTest for backend testing, integrating these with Jenkins for continuous integration, which improved code coverage and accelerated deployment cycles.
- Guided and mentored junior engineers, promoting a culture of sharing knowledge and continuous improvement

Sr. Full Stack Engineer | Proof of Impact, Remote   December 2021 – August 2023

- Led the development of an in-house component library using Storybook and React, streamlining front-end development and ensuring consistent UI/UX across projects.
- Collaborated with the product team to integrate A/B testing using react-feature-flags, and analyzed user interactions through heatmaps to drive data-informed design improvements.
- Maintained and optimized a Node.js API for real-time analytics, ensuring fast, scalable data processing and delivering actionable insights for product decision-making.
- Enhanced GraphQL APIs, enabling robust, configurable queries for improved flexibility and performance across systems.
- Automated deployment and orchestration tasks using Python, improving operational efficiency and reducing manual intervention.
- Developed and maintained a Python FastAPI for an external service gateway, facilitating secure and scalable integrations.
- Mentored a team of contracted developers, fostering the adoption of React best practices, resulting in a more maintainable, responsive, and efficient user interface.

Sr. Technical & Engineering Mentor | Chegg Inc / Thinkful, Remote   January 2020 – November 2021

- Mentored a diverse group of bootcamp students, fostering a strong understanding of modern web technologies such as React, Node.js, JavaScript, and Python.
- Delivered structured guidance on industry best practices, led live coding sessions, providing real-time problem-solving assistance and mentoring students through complex technical challenges, enhancing their problem-solving and debugging skills.

Founder | HoloTrax, Portland, OR   November 2019 – August 2021

- Co-founded an Augmented Reality (AR) startup, partnering with an Intel alumnus to develop innovative AR solutions.
- Accepted into a prestigious business incubator program in 2020, receiving mentorship and growth support.
- Utilized Node-RED on ESP32 microcontrollers to build connected hardware solutions.
- Worked with Unreal Engine and programmed in C++, developing immersive AR experiences and interactive applications.
- Developed a mobile app to connect with primary hardware devices, enhancing user interaction and experience.

Sr. Software Engineer | Nike – Contract, Remote   January 2019 – December 2019

- Led the development of functional data views using D3.js, optimizing reporting efficiency for large datasets stored in AWS.
- Collaborated closely with product teams to define priorities for data visualization, ensuring accessibility and user-centric design.
- Developed and maintained scalable, high-performance Node.js/Express APIs for reporting and metrics.
- Created dynamic, extensible sales dashboards using React and TypeScript, enabling actionable insights for stakeholders.
- Managed Docker containers and optimized infrastructure with Python, improving deployment consistency and system reliability.
- Designed and implemented Python RESTful APIs and AWS Lambdas as microservices to optimize inventory tracking, reducing stockouts and improving operational efficiency.

Sr. Front End Engineer | Daimler Trucks – Contract, Portland, OR   January 2018 – December 2018

- Managed and mentored a high-performance front-end engineering team, fostering a collaborative and results-driven culture.
- Developed a fast, responsive Next.js / React.js frontend using TypeScript, enabling an efficient diagnostic interface for technicians.
- Leveraged Redux for managing complex state across multiple components, ensuring smooth data flow.
- Integrated WebSockets to enable low-latency real-time data updates, improving the diagnostic process for users.

Lead Engineer | Linder Educational Company, Remote   January 2016 – November 2017

- Led the development of a greenfield project for an educational startup, overseeing both design and deployment.
- Implemented Redis for caching and used BullMQ for dynamic student scheduling, improving system performance and scalability.
- Developed open API specifications and implemented them using Node.js and TypeScript, ensuring smooth integration.
- Designed and developed a user-centric client portal with React and TypeScript, optimizing the student and parent experience.
- Conducted thorough end-to-end testing using Jest and Mocha, ensuring the reliability and stability of core features.
- Managed a team of remote contractors, leading 2-week sprints in an agile development environment, ensuring timely and effective project delivery.

Software / Web Engineer | Leap 4 Life Global (leap4life.com), Remote   February 2013 – December 2015

- Developed websites and applications using PHP, MySQL, and JavaScript, ensuring high performance and security.
- Engineered RESTful APIs for efficient data manipulation and optimized code for scalability and maintainability.
- Integrated third-party APIs, such as Jawbone and Fitbit, to track user health data, adding value for fitness-focused users.

Software Engineer / QA | Mumms, New Orleans, LA   October 2010 – December 2012

- Wrote Bash scripts for daily maintenance activities, including indexes and tables analyses, ensuring smooth database operations.
- Developed and maintained Jira plugins in Java, providing extended functionality and improving project management workflows.
- Assisted in porting legacy applications from C to Java, leveraging GWT for the new web-based architecture.
- Worked with cross-functional teams (project managers, developers, QA, and customers) to resolve technical issues efficiently.
- Provided technical support and collaborated with customers to enhance software functionality and resolve issues promptly.

TECHNICAL SKILLS

Programming / Scripting Languages: JavaScript | TypeScript | Python | HTML/CSS3 | SQL | NoSQL | Bash
Frameworks / Libraries: React JS | NextJS | SASS/Stylus | Bootstrap JS | Plotly JS | D3.js | Svelte | Storybook | Node JS | Express | Django | Flask | FastAPI | Jest | Mocha | Cypress.io | Redis | MongoDB | BullMQ | WebSockets
DevOps Toolsets: GitHub Actions | AWS | Docker/Docker-Compose | GCP

EDUCATION

Computer Science | University of New Orleans, 2008 – 2010   **Computer Science** | Louisiana State University, 2003 - 2005

TRAINING & CERTIFICATIONS

Microsoft Azure AI-102 Associate Certificate | Microsoft, December 2024

Google Cybersecurity Professional Certificate | Google, May 2024
- Key topics: Security risk analysis, cryptography, incident response, forensics, threat detection, and behavioral analytics.
- Tools/Technologies: Linux, SQL, SIEM tools, IDS