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# GARRET HORNBY

## FULL STACK ENGINEER & TECHNICAL SPECIALIST

### » The Gist

I have a long and great experience with technology. I was fortunate to receive not only a computer, but a dedicated phone line (Internet for the win!) in 1995. I was fascinated by the essence of solving puzzles and playing strategic games as a child. I soon found as I taught myself C that it felt like a game and the internet was the landscape upon adventures I would embark. Now a professional seasoned Full Stack Engineer, I like to bring my analytical approach and imagination to teams working with, and on, emerging technologies and passion driven missions. I like to sail, have a passion for cooking and don't try to program everything...yet.

### » Academics

Louisiana State University 2003 to 2005  
Computer Science

University of New Orleans 2008 to 2010  
Computer Science

### » Technical Skills

#### PROGRAMMING / SCRIPTING / QUERY LANGUAGES

JavaScript  
TypeScript  
PHP  
Python  
HTML/CSS3  
SQL/NoSQL  
Bash

#### FRAMEWORKS / LIBRARIES

React JS  
Node JS  
NextJS  
SASS/Stylus  
Bootstrap JS  
Plotly JS  
D3.js  
Express  
Django  
Storybook  
Redis  
Mongo  
BullMQ  
Svelte  
Jest  
Mocha  
Cypress.io  
WebSockets  
Flask

#### DEVOPS TOOLSETS

Jenkins  
Gitlab Runner  
AWS  
Docker/Docker-Compose  
Prometheus  
NATS  
GCP

### » Technical Experience

#### WAE – Contract

##### Sr. Full Stack Engineer

- Collaborated with the team on a greenfield project, transitioning it from private beta to public release.
- Enhanced application performance by optimizing React components, utilizing hooks, lazy loading, and efficiently managing state with both Redux and Context API.
- Collaborated closely with UX team to ensure seamless integration of design principles and ensuring intuitive interface implementation.
- Implemented end-to-end testing for React using Cypress, ensuring consistent user experiences and identifying potential UI/UX issues prior to deployment.
- Developed and maintained robust AWS Lambda functions in Python (Django Rest), ensuring scalable, efficient, and secure server-side functionality.

Remote  
Jan. 2023 to Aug. 2023

#### Proof of Impact

##### Sr. Full Stack Engineer

- Collaborated with UX and product owners on an agile team to develop micro-services utilizing NextJS / ReactJS, Typescript, NodeJS, and Python
- Integrated GraphQL APIs with backend services and databases using REST APIs, SQL / NoSQL databases, as well as Redis for caching.
- Optimized GraphQL APIs for performance and scalability using caching, batching, and pagination techniques.
- Built micro-services as needed with docker compose and built pipelines with Jenkins
- Wrote and maintained AWS Lambda functions written in Python
- Led front-end initiative to write a new UI library in React / TypeScript & Storybook for reusable, optimized components
- Developed unit testing with Jest / Enzyme / React Testing Library and used Gitlab pipelines for CI / CD

Remote  
Dec. 2021 to Dec. 2021

#### Chegg Inc / Thinkful

##### Sr. Technical & Engineering Mentor

- Mentor a diverse group of students in full stack engineering, which includes HTML / CSS, JavaScript, React / Context, NodeJS, PostgreSQL / MongoDB with REST APIs and traditional computer science Data Structures
- Working closely with the internal team on curriculum feedback as well as having a very hands-on approach to mentoring has been very rewarding
- Provide mock assessments for students, which include live coding exercises

Remote  
Jan. 2020 to Dec. 2021

#### Nike – Contract

##### Sr. Software Engineer

- Worked on an agile team with UX and product owners to write functional data views utilizing D3JS
- Worked with large data sets with AWS
- Developed RESTful APIs and micro-services using Node.js / TypeScript
- Developed and maintained a server-less proxy server written in Python
- Ported legacy Angular front-end into a new NextJS / React / Redux / TypeScript app utilizing mono repositories
- Wrote Jenkins pipeline configuration as well as lambda functions within AWS
- Developed unit testing with Jest and used GitHub enterprise for code management

Remote  
2019 to 2020

#### Daimler Trucks – Contract

##### Sr. Front End Engineer

- Worked on an agile team with UX, QA, and product owners to provide a dashboard of metrics from vocational trucks
- Developed the frontend in NextJS / React / Redux / TypeScript with visual library D3JS
- Developed WebSockets for low-latency real-time data
- Led the front-end team with two juniors to manage and mentor
- Worked with the juniors and helped support them about 30% of my time

Remote  
2018 to 2019

#### Linder Educational Company

##### Lead Engineer / Architect

- Oversaw all aspects of a tutoring / educational company through a greenfield project
- Created open API specifications for endpoints and developed them using NodeJS and TypeScript
- Developed an event queue with BullMQ notifications and other system events
- Implemented Redis database for caching
- Utilized React and Redux for the front-end and client state management, respectively
- Conducted end-to-end testing with Jest and Mocha
- Managed a team of remote contractors through 2-week sprints.

Remote  
2016 to 2018

#### GJ Design & Development (garretjames.com)

##### Freelance Full Stack Engineer / Architect & Technical Specialist

- Worked with clients to define project specifications and scope
- Employed a range of technologies, such as React / Redux, PHP, Python, JavaScript, Typescript, NodeJS, REST API, SQL, and relevant libraries to deliver results
- Conducted unit and integration testing to ensure optimal functionality
- Engineered REST API web services to manipulate dynamic datasets as planned
- Collaborated with cross-functional teams of business analysts, developers, and technical support professionals to establish a comprehensive list of requirement specifications.

Remote  
2015 to 2016

#### Leap 4 Life Global (leap4life.com)

##### Software / Web Engineer

- Leveraged programming skills in PHP, MySQL, JavaScript, and relevant libraries to develop websites and applications
- Optimized MySQL databases and web assets for optimal speed and performance
- Constructed effective Content Management Systems to serve as a user-friendly interface for clients
- Conducted website testing and troubleshooting to ensure seamless deployment
- Planned and engineered RESTful APIs to enable efficient data manipulation
- Developed landing pages, dashboards, and online applications using PHP and JavaScript in an MVC pattern
- Integrated Jawbone and Fitbit APIs to track user health data.

Remote  
2013 to 2015

#### Secure Computing Systems (mumms.com)

##### Software Engineer / Technical Specialist

- Developed Bash scripts for daily maintenance tasks, such as analyzing indexes and tables
- Collaborated closely with software development and testing team members to create robust solutions that meet client requirements for functionality, scalability, and performance
- Crafted maintainable and reliable code for Jira, including core framework plugins written in Java
- Assisted with the porting of a legacy C application into a Java-based web application that utilized GWT
- Worked alongside project managers, developers, quality assurance professionals, and customers to identify and resolve technical issues
- Conducted QA, debugging, and troubleshooting on the main software application to promptly and accurately solve technical problems for clients.

New Orleans, LA  
2010 to 2013

#### Inspired Divine Creative (idc504.com)

##### Web Developer

- Utilized programming expertise in PHP, SQL, JavaScript, and Actionscript (Macromedia Flash) to develop websites
- Ensured compatibility with leading browsers, including Firefox, Chrome, IE, and Safari
- Created page layouts and navigation tools that met or exceeded user expectations
- Employed JavaScript and Object-Oriented Programming knowledge to design successful solutions in the MVC pattern
- Constructed website interfaces using HTML and CSS
- Translated mock-ups into HTML, JavaScript, AJAX, and JSON
- Represented the web team in meetings with executives to discuss project objectives and milestones
- Conducted complete website redesigns to enhance navigation, visuals, and search engine rankings
- Conducted research on new technologies, software packages, and hardware products for website projects.

New Orleans, LA  
2008 to 2010