

BENJAMIN KNOX

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Software Engineer

Innovative professional with a proven history of producing efficient, effective software in an effective and productive manner.

Experience with Node, Python, TypeScript, React, Docker, CI/CD, Github, TDD advocate, and NoSQL and SQL databases.

PROFESSIONAL EXPERIENCE

PHYSNA - FULL TIME

Oct 2017 – Aug 2023

Software Engineer

Developed front-end code with React and Next.js on Physna's enterprise application and later on thangs.com. Used industry best practices, including server-side rendering, Test-Driven Development (TDD) with Jest, and component tests in Cypress. Employed Redux and Storeon for application state management, implemented CSS in React with JSS and Emotion, and orchestrated authentication with OAuth. Employed Three.js to render geometric representations of diverse 3D models.

Developed solutions for creating comparisons of differing 3D models. Daily work on web application technologies: Next.js, React, Node, Linux, and MySQL. Creating a scalable system using Google Cloud Platform. Working with a team of developers all using Git to manage the code. Created utilities in Bash for data analysis and for creating self-healing architecture. Used Docker for development and CircleCI for production deployment. Worked with scalable systems using GCP.

Skills: React, Next.js, Server-Side Rendering, TypeScript, JavaScript, CSS with JSS, Styled Components, Test-Driven Development (TDD) with Jest, Component Testing with Cypress, Redux, Storeon, OAuth, Node.js, C#, python, Postgres, MySQL, mongodb, Google Cloud Platform, Git, Github, Bash, Docker, CircleCI, Three.js, 3 years Remote Work.

HANDY HOME GUYS - CONTRACT

Jun 2017 – Oct 2017

Software Developer

I undertook the development of a WordPress website for our client, working in close collaboration to create a platform tailored for marketing their construction and landscaping services. This project involved utilizing WordPress, PHP, and JavaScript to fulfill the customer's requirements, effectively conveying the company's capabilities to prospective clients. Additionally, I crafted custom WordPress plugins to augment the built-in content management functionality, ensuring a seamless and tailored user experience.

Skills: WordPress, jQuery and JavaScript, HTML, Project Management, Custom plugin and template development.

CLEARVOICE – FULL TIME

Sep 2015 – Aug 2016

Software Developer

Developed solutions using Angular for the frontend and Ruby for the API backend. Created and enhanced features that facilitated workflows for companies engaged in outsourcing marketing and for freelance content creators. Operated within a SCRUM environment as a member of a team comprising 6-7 developers. Maintained regular communication with in-house content creators to identify opportunities for software improvements. Additionally, contributed to the development process by creating unit tests to ensure software maintainability for both backend and frontend developers.

Skills: Developed with AngularJS on the frontend, Worked with jQuery, Utilized Ruby on Rails REST API, Employed Pivotal for project management, Collaborated within a SCRUM team.

CLEARCALL SOLUTIONS - CONTRACT

Feb 2015 – Aug 2015

Software Developer

Software development role primarily focused on constructing reports for Business Intelligence in MySQL for Tableau data sets. Additionally, maintained WordPress and static HTML websites, implementing Google Analytics and other Google products for

marketing purposes. Developed and maintained C# applications responsible for retrieving data from SOAP APIs and queuing calls into ShoreTel ECC. Also, oversaw the upkeep of a legacy PHP application used for reporting and interfacing with critical company data.

DUNESPORT - CONTRACT

Feb 2014 – Aug 2014

Developer / DBA

I held a comprehensive IT role that encompassed a wide range of responsibilities. These included web application development, network troubleshooting, and the crucial task of maintaining the customer database in MySQL. Additionally, I was tasked with resolving issues in a problematic inventory management system, which comprised two separate systems requiring integration. I successfully revamped a malfunctioning Lead Management System, managed the SEO for a front-end website, and executed email campaigns aimed at generating an increasing number of leads for our sales representatives.

SAIFE INC. - FULL TIME

Apr 2013 – Jan 2014

Developer

I held a focused role responsible for developing web applications within a collaborative team environment. I leveraged a diverse range of technologies to create applications, websites, and functionalities tailored to customer specifications. My contributions spanned numerous projects in a fast-paced Agile development environment. I primarily concentrated on the front-end aspects of projects, which included the design of websites featuring multiple user interfaces. I also spearheaded the implementation of new applications aimed at enhancing code readability, simplifying development, and fortifying system reliability. Deployed Python Django web app on Linux Debian and CentOS. Utilized Spring Tool Suite (Eclipse) for development within the Java Spring framework.

360 EDUCATION SOLUTIONS – FULL TIME

Feb 2012 – Apr 2013

Developer/DBA

I offered specialized expertise and leadership that steered the development of a multifaceted project. I proficiently diagnosed technical issues, identified failures/errors, and uncovered vulnerabilities within the existing security system. These challenges were promptly and efficiently addressed, resulting in enhanced stability and resolution. Furthermore, I implemented a strategic shift by replacing the in-house email system with an outsourced solution, significantly improving delivery rates and positively influencing the bottom-line. Additionally, I assumed the role of leading test development, meticulously selecting a code editor, and establishing the production server for seamless operations.

PROCERIUS, INC. - FULL TIME

2008 – 2012

Developer/DBA

I took on the role of coordinating various website development projects, where I held oversight over all aspects of website operations, encompassing design, development, updates, and additions. My responsibilities extended to a wide range of project-related tasks, where I prioritized efficient time management to meet all deadlines effectively. I played a pivotal role in architecting the database schema for website projects and diligently programmed each website to align with precise customer specifications. My particular focus was on creating an appealing user interface that seamlessly presented dynamically displayed information, ensuring widespread compatibility across various platforms and devices.