

ZACH AYERS

Full-Stack Software Engineer

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TECHNICAL SKILLS

Markup - HTML 5 | CSS3 | SASS | SCSS | Markdown | SVG

Programming - JavaScript (ES5 / ES6) | TypeScript | Python | YAML | SQL | Bash

Frameworks - Angular | React | Redux | NextJS | NodeJS | Backbone | Express | Django

Testing - Mocha | Chai | Sinon | Jest | Enzyme | Jmeter

Databases - GraphQL | MongoDB | MySQL | SQLite | PostgreSQL | Redis

Deployment - Heroku | Vercel | Circle CI | Travis CI | AWS S3 / EC2 / RDS | NGINX

Tools - VSCode | Webstorm | Pycharm | Datagrip | NPM / Yarn | GIT | Docker | Kubernetes

PROFESSIONAL EXPERIENCE

Autodesk .NET Developer / System Administrator | C# / C++ / JavaScript / HTML / CSS / vSphere

STAK Design

4 Years

- Designed and implemented Autodesk automation software using C# & C++, reducing project turnaround time by 50%.
- Developed an interactive web application using THREE.js for mock-up of retail fixtures, leading to a 5-10% uptick in sales.
- Installed and maintained 100% of office ESXi host machines and Egnyte cloud storage for user logins and access.

SOFTWARE ENGINEERING APPLICATIONS

RabCab Automation | Software Engineer | C# / C++ / JavaScript / jQuery / HTML / CSS / GIT / AJAX

AutoCAD C# framework which provides built-in carpentry, sorting, and milling automation tools to the application.

- Extended the base functionality of the C# ObjectARX SDK to include custom 3D entities and geometric manipulation methods.
- Implemented custom g-code translators which communicate workflows to production machinery and report schemas.

VX Apps | Software Engineer | React / Express / PostgreSQL / Docker / AWS EC2

Application marketplace for users to upload, download, rate, and review mobile applications.

- Expanded server functionality to accommodate hundreds of millions of reviews/ratings without exceeding 50% resource load.
- Composed integration and load testing suites to ensure server architecture can withstand tens of thousands of users per second.
- Optimized database structure with join tables and secondary indexing - allowing response times of ~10ms per request at 5000 rps.
- Developed proxy routing and dockerized services to deploy and seed data on an AWS instance with 1GB RAM and 1 CPU.

WonderFund | Software Engineer | React / Express / MySQL / Sequelize / Docker / AWS / Skaffold

Crowdfunding platform webapp composed of microservices for users to post customized fundraisers and set monetary goals.

- Designed a standardized micro-service to display professional crowdfunding reward entries in a fixed navigation bar.
- Scripted toolkits to seed a MySQL database with thousands of videos, images, and mock data and render them client-side.
- Combined multiple microservices via proxy-server, Docker, and Skaffold to allow full app rendering and communication.
- Utilized agile ticket logs to ensure application completion in a two-week timeline for all team members.

Chalkboard | Software Engineer | React / Express / Socket.IO / NGINX

Collaborative drawing applications for users to create, edit, and delete sketches in real time.

- Structured Express server to broadcast web-socket events to in-use client applications with a near-instant execution time.
- Expanded SEO, accessibility, and page load speeds to meet PWA requirements - boosting app performance by 20%.
- Dockerized and load balanced application using NGINX to allow auto-container deployment under significant load.

EDUCATION

Hack Reactor | Advanced Software Engineering Immersive Program

May 2020 - Aug 2020

Software Engineering • Remote Campus

Arkansas Tech University | Computer Science

Aug 2010 - Dec 2012

Computer Science • Russellville, Ar.