ZACH AYERS

Full-Stack Software Engineer

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TECHNICAL SKILLS

Mockup	Programming	Testing	Databases	Frameworks	Deployment	Tools
- HTML 5	- JavaScript	- Mocha	- Firebase	- Angular	- Heroku	- VSCode
- CSS3	- TypeScript	- Chai	- GraphQL	- React	- Vercel	- Jetbrains IDEs
- SASS / SCSS	- Python 3	- Sinon	- MongoDB	- Redux	- Circle CI	- NPM / Yarn
- YAML	- GoLang	- Jest	- MySQL	- Backbone	- Travis CI	- GIT
- EJS	- Ruby	- Enzyme	- SQLite	- Express	- AWS	- Docker
- ERB	- C#	- Istanbul	- PostgreSQL	- Django	- GCloud	- Kubernetes
- Pug / Jade	- .NET	- Jasmine	- Redis	- Rails	- Webpack	- Postman

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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**