

Ryan Sabik

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EDUCATION

UNIVERSITY OF CALIFORNIA - RIVERSIDE - | - BACHELOR OF SCIENCE IN COMPUTER ENGINEERING
Riverside, CA | June 2011 - June 2015

EXPERIENCE

NABIS | SOFTWARE ENGINEER

San Francisco | 11-2019 – Current

- Full Stack Developer in a TypeScript / JavaScript codebase.
- Developed web application used by customers and internal operations team using React and Express.
- Introduced microservice architecture, scaling PDF generation of manifests using AWS Lambda and S3.
- PostgreSQL migrations and database edits to capture more customer data.
- Implemented backend services on a GraphQL server, streamlining RESTful / REST API routes into GraphQL queries and mutations, leading to less wasted data fetching and a faster loading interface.

GENERAL MOTORS | SOFTWARE ENGINEER - C++, JAVA, PYTHON

Warren, MI | 06-2018 – 06-2019

- Systems Software Engineer working in C++ and Java on the Voice Recognition team.
- Domain leader of TTS (Text To Speech) component, translating Android API Java calls into C++ and Native socket calls, offloading processing to a cloud speech recognition provider.
- Maintained C++ base, optimized multi-threaded concurrency, for a more responsive voice assistant.
- Developed automation testing in Python, promoting ease of reproducing defects and integration testing.
- General Ubuntu and Linux scripting using Bash and Python.

US ARMY (TARDEC) | SOFTWARE ENGINEER - C++, PYTHON, JAVASCRIPT

Warren, MI | 06-2017 – 06-2018

- Robotics and Full Stack developer, writing C++ and JavaScript as part of the robotics engineering team.
- In C++ developed sensor's XML parsing API component for a robotic controller.
- Developed AngularJS frontend features, improving the UI and display space.
- Developed the gamepad feature, allowing soldier control of the robot and application simultaneously.
- Wrote Python tools to automate testing of the robot using WireShark to sniff and spoof network traffic.

SKILLS AND TOOLS

LANGUAGES C++, C, Python, Java, TypeScript, JavaScript, HTML, CSS

TOOLS Linux Systems, AWS, Lambda, EC2, S3, Microservices, React, Docker, SQL, Express, Node.js

PARADIGMS Systems Developer, Cloud, Frontend, Backend, Git, Agile, REST, GraphQL,

PROJECTS

TWITCH-COPY | REACT, RAILS

Clone of Twitch.tv with full live streaming capability

<https://twitch-copy.herokuapp.com>

GLOBAL LIFE | D3.JS, THREE.JS

3D Data Visualization using D3.js and Three.js

<https://ryansabik.com/GlobalLife/>

AWARDS

SAE - CYBER AUTO TRUCK CHALLENGE 2017

Computer / Automotive Hacking Competition

MTRS-INC-II EXCELLENCE AWARD 2018

Aiding in saving soldier's on the MTRS-INC-II Robotics Program.