

NICOLAS MITCHELL

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10704 Sunderland Road, Louisville, KY 40243

EDUCATION

Bachelor of Science in Computer Science and Engineering

JB Speed School of Engineering, University of Louisville

May 2020

GPA: 3.341/4.0

SKILLS

Languages: C, C++, Java, Python, Golang, JavaScript, Bash

Other technologies: AWS, Docker, Git, GNU/Linux, SQL and NoSQL databases, ReactJS, Ansible

Fields of Expertise: Backend development, cloud infrastructure, networking, containers, concurrency

WORK EXPERIENCE

SAP Next Talent Rotational Developer

September 2020-Present

SAP

Remote/Palo Alto, CA

- Reduced the need for manual task execution by working on a team to architect and build an automated workflow scheduler
- Simplified deployment by automating container building, pushing, and running using Ansible
- Improved automated processes for server deployment and setup scripts

Backend Software Developer Intern

June 2019-August 2019

Red Ventures

Fort Mill, SC

- Developed backend micro-services in Golang for an internal data pipeline software
- Allowed for data connections between third party data providers like Segment and internal data pipeline by building Golang plugins
- Improved UX and integrated new backend components to web frontend with ReactJS
- Facilitated new software features in a MySQL database by writing migrations

Visiting Research Assistant

January 2019-May 2019

University of Southern California Information Sciences Institute

Waltham, MA

- Researched and developed a system component for a DARPA funded project to automatically detect and respond to phishing emails
- Developed new features and fixed bugs for a Python natural language processing framework

Software Developer Intern

January 2018-April 2018

El Toro

Louisville, KY

- Improved test coverage to 100% by adding necessary unit and integration tests in Golang
- Facilitated integrations for various databases including MongoDB, Aerospike, and PostgreSQL by creating and implementing a common interface
- Wrote a public REST API with Golang to handle, process, and schedule tasks using AWS
- Sped up internal CSV data ingestion program by over 1000% by implementing concurrent line processing using goroutines in a worker pool

Student Tutor

August 2017-April 2020

Resources for Academic Achievement (REACH)

Louisville, KY

- Tutored students in Python, C, C++, Data Structures and Algorithms, and other CS topics
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APPLIED EXPERIENCE

Embedded Systems: Interfaced and displayed vehicle ECU data with an Arduino and LED screen, built a self-orienting solar panel using an Atmel microcontroller, built a touch-sensor game on a Raspberry Pi.

IoT/Serverless: Designed, developed, and deployed an IoT pilot project that ran sensor data through AWS IoT to an Aurora Serverless database cluster using a lambda function.

Networking/Architecture: Managed microservices in an AWS VPC separated into public and private subnets. Included components were a database, web api, and web client. Integrated web api and client with Auth0 SSO.

Open Source Contributions: Godot Game Engine, Kubernetes, Istio

Hackathons: FirstBuild 2017, VandyHacks 2017, DerbyHacks 2018, FirstBuild 2018

CERTIFICATIONS

AWS Certified Solutions Architect – Associate

July 2019- July 2022