NICOLAS MITCHELL

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10704 Sunderland Road, Louisville, KY 40243

EDUCATION

Bachelor of Science in Computer Science and Engineering May 2020

JB Speed School of Engineering, University of Louisville Louisville, KY, USA

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 Programming, serverless architecture, cloud infrastructure, networking

WORK EXPERIENCE

SAP Next Talent Rotational Developer September 2020-Present

SAP Remote/Palo Alto, CA

* Worked on a team to architect and develop an automated workflow scheduler for infrastructure teams
* Pushed containers to repositories and automated container deployment using Ansible
* Improved automated processes for server deployment and setup

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
* Developed integration with third party service providers like Segment
* Built web UI components using ReactJS
* Wrote MySQL database migrations to facilitate software functionality

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
* Worked with a team to develop new features and fix bugs for a Natural Language Processing library written in Python

Software Developer Intern January 2018-April 2018

El Toro Louisville, KY

* Wrote automated unit and integration tests for database software in Go
* Wrote integrations for various databases including MongoDB, Aerospike, and PostgreSQL in Golang
* Wrote a public REST API with Golang to handle and process requests using Amazon Web Services
* Used Docker containers to control and automate tests

Student Tutor August 2017-Present

Resources for Academic Achievement (REACH) Louisville,KY

* + - * Helped students and staff solve IT problems
      * Tutored students in Python, C, C++, and other Computer Science classes

APPLIED EXPERIENCE

Embedded Systems: Used an Arduino to interact with an LED screen and vehicle ECU, designed and developed a self-orienting solar panel using an Atmel microcontroller, designed and 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 micro services in an AWS VPC separated into public and private subnets. Included components were a database, web api, and web client.

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

CERTIFICATIONS

AWS Certified Solutions Architect – Associate July 2019- July 2022