

Matthew Haynes

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EDUCATION

University at Buffalo, The State University of New York - Buffalo, NY August 2021 - May 2025

- Bachelor of Science in Computer Science**, GPA: 3.8/4.0
- Relevant Coursework:** Operating Systems, Computer Organization, Data Structures & Algorithms, Web Development

SKILLS & CERTIFICATIONS

Languages: Python, C, JavaScript, Scala, SQL, Swift, Bash

Tools & Frameworks: Terraform, Ansible, AWS, GCP, Azure, Node, Express, React, Parse Server, Postman, Ajax, Git

EXPERIENCE

Arm - Software Engineer Intern - Austin, TX May 2022 - Present

- Built & automated scalable infrastructure to benchmark MongoDB performance on Arm-based AWS EC2 clusters
- Created, tested & refined cloud-based guides on learn.arm.com, scaling support for partners & external ecosystem


Pinterest - Engage Scholar - San Francisco, CA (Remote) June 2022 - August 2022

- Analyzed & solved weekly coding challenges in Python with a Pinterest Software Engineer and group of scholars
- Engaged in Software Engineering career mentorship through industry panel discussions & skillset workshops


Blockchain ThinkLab - Undergraduate Research Assistant - Buffalo, NY June 2022 - August 2022

- Conducted a comprehensive literature review on Decentralized Finance, reviewing academic journals & white papers
- 1st Place Award at national 2022 LS-PAC Models Research Conference Undergraduate Oral Presentation Competition


PROJECTS

FoodBuddy - JavaScript, NodeJS, AWS Lambda  November 2022 – January 2023


- Developed an Amazon Alexa Skill to recommend delicious food recipes based on ingredients the user owns
- Utilized an AWS Lambda function for a serverless backend, user receives text message instructions via the Twilio API

Dynamic Memory Allocator - C, GNU Debugger (GDB)  November 2022


- Reimplemented dynamic memory allocation in C (malloc, calloc, realloc, free) to run on the Linux terminal
- Successfully ran against 20+ Bash Commands along with large GUI applications (Vim, Firefox)

Explore iOS Application - Swift, UIKit, Parse Server, Postman, Apple MapKit  March 2022 - May 2022

- Implemented an iOS app with Parse RESTful API endpoints where students can post, view, & save campus locations
- Integrated MapKit to display campus hotspots on Apple Maps, such as printers via the Wepa Printer API on Postman
- Spearheaded a YouTube app demo, critical to our team's top 10 finalist spot at CodePath National Demo Day

Point of Sale (POS) System - Scala  April 2022

- Designed a robust POS system in Scala using object-oriented programming (OOP) principles, attached to a self-checkout kiosk GUI to enable different states in the checkout process
- Decreased sales checkout times by 15%, integrated unit testing to ensure functionality of each checkout state

Covid-19 Vaccination Data Visualization - Python, JavaScript, HTML/CSS  November 2021 – December 2021

- Leveraged Asynchronous JavaScript & XML (AJAX) to send requests to a Python Bottle web server handling CDC data, parsed JSON responses to visualize vaccine administration statistics on Plotly graphs with JavaScript, HTML/CSS

ACTIVITIES & INVOLVEMENT

Association for Computing Machinery (ACM) - Events Coordinator - University at Buffalo November 2022 - Present

- Organizing and managing weekly events, such as Picnic with Professors, Internship Panel, & Game Night Social

National Society of Black Engineers (NSBE) - Member - University at Buffalo February 2022 - Present

- Active Member, provided transportation to members for the Region 1 Fall Regional Conference (FRC)