

ULYSSES BUTLER

Software Engineer

@ ulysses@uabutler.com

📍 Washington, DC

🌐 <https://uabutler.com>

EDUCATION

Truman State University GPA: 4.00/4.00

📅 Fall 2017 – Spring 2021 📍 Kirksville, MO

- Graduated summa cum laude with departmental honors
- Major in computer science, minor in mathematics

WORK EXPERIENCE

Software Development Engineer I Fall 2021 – Present
Amazon Web Service, EC2 Networking

Contributed to building of the VPC IPAM service
Designed critical components such as metering/billing
Responsible for ops of prefix list service
Owned multiple cross-team service integrations

Software Development Engineer Intern Summer 2020
Amazon Web Service, EC2 Core Platform

Built cache for exiting dataplane, stood up new APIs

Research Experience for Undergraduates Summer 2019
Washington University in St. Louis

GPU programming with OpenCL and CUDA
Taught C++ and systems programming to lab partner
Presented poster to interdisciplinary audience

Computer Science Department Fall 2018 – Spring 2021
Truman State University

Tutor and grader for computer architecture

RELEVANT COURSEWORK

CS 390 Operating Systems Spring 2021

MATH 564 Advanced Linear Algebra Fall 2020

CS 370 Software Engineering Fall 2020

MATH 347 Discrete Mathematics Spring 2020

CS 435 Parallel Programming Spring 2020

CS 484 Embedded Systems Spring 2020
Programming the ATMega328P, basic circuitry

MATH 357 Linear Algebra Fall 2019

CS 330 Computer Architecture Spring 2019
Taught using MIPS architecture

CS 310 Data Structures and Algorithms Spring 2019

MATH 200 Foundations of Mathematics Spring 2019
A transition from computational to proof-based math

MATH 198, 263, 264 Calculus I – III Fall 2017 – 2018

SKILLS

Kotlin and Java

- Works with and develops enterprise systems at AWS
- Focus on scalability, extensibility, highly available, and durable systems

C and C++

- Primary languages used in coursework and on most personal projects
- Employed extensively during REU

Cult of Vim

- Experience with bash, good git hygiene, vim, \LaTeX , etc.

PERSONAL PROJECTS

ORTS

- Override Tracking System
- Started as database assignment and completed in the year following graduation
- Designed to track and manage course registration overrides submitted by students and reviewed by faculty
- Developed a full LAMP stack application designed to meet needs of the CS department administration
- Integrated with the university authentication service and course directory

Regular Expression Matching

- Prolog-based recursive descent parser
- Matched strings to regular expressions

AFFILIATIONS

McNair Program

- Federally-funded to assist low-income and first-generation students with pursuing a graduate degree
- Performed a literature-review and wrote a research proposal

MoLSAMP

- Attended the Emerging Researchers National (ERN) Conference in STEM in 2018 and 2019