

Akilesh Praveen

U.S. Citizen

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EDUCATION

University of Maryland, College Park

3.54 GPA

B.S. Computer Science — Minor in Cybersecurity (ACES)

Fall 2018 – Fall 2021

- **Coursework:** Distributed Systems (Graduate), Parallel Computing (Graduate), Data Structures, Algorithms, Compilers, Programming Languages, Computer Architecture, Computer Systems, Penetration Testing, IoT Security

EXPERIENCE

Software Engineering Intern

Summer 2021

Athelas

Mountain View, CA

- Working at healthcare startup Athelas as a SWE Intern. Various responsibilities.

Software Engineering Intern

Summer 2019 & 2020

Hewlett Packard Enterprise

San Jose, CA

- Used **python**, **bash scripts** & **docker** to create a fault-tolerant, containerized testing framework for generating customizable I/O workloads **115% more efficiently**, outperforming and obsoleting a VM-based framework.
- Developed 3 additional internal tools using **python**, **bash**, **powershell**, **verticaDB**, **SQL**, **jenkins** for efficient testing, data analysis, and automated status reports currently used by QAOps, SystemTest, and PerfOps teams.
- Won **HPE Best in Class Scholarship & 1st Prize at HPE Intern Project Fair**.

Lecturer & Teaching Assistant

Fall 2019 - Present

University of Maryland Department of Computer Science

College Park, MD

- **CMSC389E - Digital Logic Design Through Minecraft:** Head lecturer for **digital logic design & theory** course where students build a 2-bit computer implementing a custom instruction set architecture. Designed and built online textbook for course, maintaining course website, instructional materials, and video lectures.
- **CMSC216 - Introduction to Computer Systems:** Taught and held weekly office hours for 40+ students C, MIPS Assembly, UNIX concepts- github.com/akipraveen/216-notes

SKILLSET

Languages: Go, Python, C, Java, MIPS & x86 Assembly, Bash

Technologies: Flask, UNIX, Docker

PROJECTS

Secure Information Exposure Detection Tool

Northrop Grumman Corporation

- Developed security-focused PII-Identifying tool using Python's **beautifulsoup** and **Selenium** for static and dynamic webpages. Leveraged Github Actions and AWS for CI/CD.
- Held Engineering, Project Manager, and Technical Lead roles on team of 6 reporting to a Northrop Grumman Systems Architect on a rotational (biweekly) basis.

View all of my projects at github.com/akipraveen

ACTIVITIES / MISCELLANEOUS

- **Executive Director @ STICS UMD:** Head of advisory board for student-taught classes at UMD.
- **Cybersecurity Fellow @ Startup Shell:** Student-run campus startup incubator at UMD.
- **CS Curriculum Designer & Tester:** Part-time contractor designing & testing Data Structures and Algorithms curriculum in C (projects, exercises, exams) and refactoring C code to be used by the US Army, NSA, and other clients in training programs.

References available upon request · <http://www.akilesh.xyz>