

James Woglom

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EDUCATION

UMASS AMHERST

B.S., COMPUTER SCIENCE

May 2020 | Amherst, MA

Dean's List (All Semesters)

GPA: 3.83 / 4.0

THOMAS JEFFERSON H.S.

FOR SCIENCE AND TECHNOLOGY

June 2016 | Alexandria, VA

GPA: 3.75 / 4.0

COURSEWORK

UNDERGRADUATE

Software Engineering

(with Undergraduate Course Citation)

Distributed Systems (Graduate-level)

Operating Systems

Computer Networks

Digital Forensics

HIGH SCHOOL

Artificial Intelligence

Parallel Computing

AP Computer Science

SKILLS

EXPERIENCED

Java • Python • JavaScript • Go

HTML/CSS • Django • Flask • Play!

Arch/Debian Linux • Bash • Git

PROFICIENT

C • C++ • PHP • SQL • Angular

KVM • Libvirt • LXC • AWS EC2

Nginx • OpenLDAP • Kerberos

Kubernetes • Docker • Bazel

LINKS

 github.com/jwoglom


 [linkedin.com/in/jameswoglom](https://www.linkedin.com/in/jameswoglom)

 wogloms.com/resume

 wogloms.com/pgp-key.txt

CONTACT

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EXPERIENCE

GOOGLE SOFTWARE ENGINEERING INTERN - CORE SYSTEMS/CLOUD

May 2019 - August 2019 | Sunnyvale, CA

- Helped build the DevOps Environment Service, a new backend for Google Cloud Shell which provisions on-demand Kubernetes containers to end users.
- Implemented functionality to archive inactive sessions and enforce time quotas.
- Designed a system to relocate user sessions between servers based on location.

UMASS AMHERST UNDERGRADUATE COURSE ASSISTANT

January 2019 - May 2019 | Amherst, MA

- Held office hours and answered student questions for CS365 Digital Forensics.
- Received an Outstanding UCA award for contributions to the class.

YEXT SOFTWARE ENGINEERING INTERN - INFRASTRUCTURE

May 2018 - August 2018 | New York, NY

- Assisted in migration for company applications from a previous cluster management solution to Kubernetes using industry-standard practices.
- Developed a management interface in Go to provide centralized monitoring and log information for microservice applications running in Kubernetes.
- Developed a utility to analyze application coverage and build process statistics.

YEXT SOFTWARE ENGINEERING INTERN - R&D

May 2017 - August 2017 | Tysons Corner, VA

- Developed a web scraping/schema validation tool in Java for automated use.

INSIGHT INTERFACES LEAD APPLICATION DEVELOPER

June - Sept 2015, June - Sept 2016 | Washington, DC

- Designed an education-focused video conferencing and presentation platform.
- Led a group of students in building and maintaining the application.

VOLUNTEER

HACKUMASS HACKATHON ORGANIZER + DIRECTOR

October 2018 - February 2020 | Amherst, MA

- Director for HackUMass VII, the largest student hackathon in Western Mass.
- Managed a 15-person team responsible for logistics, sponsorship, and planning
- Helped build the open-source tech platform used by HackUMass+HackHer413

TJHSST COMPUTER SYSTEMS LAB LEAD STUDENT ADMINISTRATOR

December 2012 - June 2016 | Alexandria, VA

- Led and mentored student sysadmins in a computer systems research lab.
- Managed web infrastructure for 2000 users serving >500k requests/month.

PROJECTS

SIGNAL-CURSES CLI MESSAGING APP (github.com/jwoglom/signal-curses)

- Built a command-line interface for Signal (signal.org) using Python and ncurses.

KEY-VALUE STORE OPERATING SYSTEMS COURSEWORK

- Built a Linux kernel module providing a device driver with efficient store and retrieval operations for arbitrary data in a hashtable.

TJ INTRANET OPEN-SOURCE SOFTWARE (github.com/tjcsli/ion)

- A web portal facilitating activity signups and attendance for students/teachers.
- Co-creator of the system, built with Python, Django, LDAP and Kerberos.