

Andrew Cvitanovich

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EDUCATION

UNIVERSITY OF OREGON

BS COMPUTER SCIENCE

Spring 2019 | Eugene, OR

POMONA COLLEGE

BA BIOLOGY & PUBLIC POLICY

ANALYSIS

2002 | Claremont, CA

LINKS

Website: <https://www.colibricafe.space>

Github:// [cvitanovich](#)

BitBucket:// [cvitanov](#)

LinkedIn://[andrew-cvitanovich-4b107311](#)

SKILLS

PROGRAMMING LANGUAGES

Python • C++ • C • Matlab

LINUX TOOLS & SCRIPTING

Bash • gdb • Valgrind • awk • vi • bison • yacc • expect

CLOUD & VIRTUALIZATION

AWS • Docker • VMWare (ESXi, vSphere) • QEMU/KVM

DEVOPS

Ansible • git • Kubernetes • Jenkins • Jira

WEB DEVELOPMENT

REST APIs • Javascript • Nginx • NodeJS • Django • Flask

DATABASES

Postgres • MySQL • MongoDB

COURSEWORK

Artificial Intelligence • Databases • Computer Architecture • Operating Systems • Computer Graphics • Parallel Computing • Computer Security • Compilers

SUMMARY

I am a skilled and knowledgeable software engineer with expertise in the Linux OS, cloud computing, and developing/debugging code in several languages (Python, Bash, C, C++, etc.). I am highly proficient with virtualization tools on all major commercial OS products (VMWare vSphere/ESXi, QEMU/KVM, docker), networking/web-hosting (Nginx, Flask, Django, NodeJS), database tools (MongoDB, PostgreSQL), and advanced server administration and command line tools (UEFI shell, firmware, awk, Linux POSIX commands, custom kernels, etc.). Additionally, I have strong aptitude troubleshooting and configuring a wide assortment of computer hardware and electronics (motherboards, CPUs, protocol analyzers, oscilloscopes, signal processors, PCI devices, etc.).

SELECTED WORK EXPERIENCE

INTEL CORP.

CLOUD SOFTWARE DEVELOPMENT ENGINEER

August 2022 - Present | Hillsboro, OR

- Debugged and root-caused critical virtualization and hardware accelerator issues on data center server systems.
- Developed APIs and software automation tools (Python, C, Bash) for performance characterization, functional testing and validation of hardware accelerators for AI, encryption, compression, data-streaming and analytics.

INTEL CORP.

CLOUD PERFORMANCE VALIDATION ENGINEER (CONTRACT)

July 2021 - August 2022 | Hillsboro, OR

- Developed software using Python/Bash to facilitate performance validation, data-analysis and debugging.
- Developed scripts to manage virtual machines in VMWare, Linux and QEMU/KVM to test virtualization features of computer hardware.
- Configured and debugged platform hardware and specialized equipment, including PCI protocol analyzers, networking hardware, and firmware upgrades.

OREGON STATE UNIVERSITY

CONTRACT SOFTWARE DEVELOPER

2018-2019 | Corvallis, OR

- Developed computer vision software to automate the motion tracking of human subjects in a research project.

UNIVERSITY OF OREGON

SCIENTIFIC PROGRAMMER & RESEARCH ASSISTANT

2011-2016 | Eugene, OR

- Programmed in Python, C, and Matlab using ML and data science tools to facilitate statistical data analysis and experimental control in scientific research.
- Assisted in teaching undergraduate courses in Human Physiology, Animal Physiology, and Animal Behavior while conducting neurobiology research.