

PETER CUNHA

Los Angeles, CA · peter@alumni.purdue.edu

EDUCATION

Purdue University Degree in Computer Science	West Lafayette, IN 2016 - 2021
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WORK EXPERIENCE

AT&T <i>Software Engineer</i>	El Segundo, CA 2019 - 2020
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- Developed backend infrastructure for HBO MAX. Improved application reliability and uptime, created metrics monitoring dashboards, wrote backend code. Go, Kubernetes, Kafka, Prometheus, Grafana

Northrop Grumman <i>Software Engineer</i>	Space Park, CA 2015 - 2019
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- Worked on the Kestrel Ground Systems team to build a fully featured web dashboard for visualizing live mission data. Live satellite telemetry graphs, command & control capabilities, and an authentication & user management system. Node.js, MongoDB, D3.js, Angular. (2019)
- Improved on satellite ground system software by adding load balancing, service discovery, and fault tolerance in C++. Built a Web UI for monitoring and controlling satellite ground systems using Node.js and Angular. (2018)
- Worked with a team of talented developers to build a satellite ground system in C++ and Java. Capabilities included decoding RF signals from long-range antennas, translating binary streams into meaningful data, and distributing that data to many systems using ActiveMQ. (2017)
- Developed and maintained an HR software tool for managing incoming and existing employees. Added features, fixed bugs, and wrote documentation. PHP, MySQL, JavaScript. (2016)

BitMitigate <i>Network Security Engineer</i>	Los Angeles, CA 2014 - 2015
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- Built network stress testing tools to simulate real world DDoS attacks. We used this technology to help companies prepare for large-scale cyber threats..

SKILLS

Programming Languages:	Java, C++, Javascript, Go, Python, Angular, React, Node.js, PHP, CSS
Technologies:	Docker, Kubernetes, Apache, Nginx, Jenkins, PostgreSQL, MongoDB
Cloud:	Amazon Web Services, Google Cloud Platform, Digital Ocean
Other:	Agile, CI/CD, Design Patterns, Git

LINKS

Github My open source projects	https://github.com/petercunha
Leetcode My competitive programming profile	https://leetcode.com/sunlit
Personal Website My personal website with more info about me	https://petercunha.com

ACHIEVEMENTS

Cyberpatriot National Finalist Team ranked 6th place in the nation for Cyberpatriot, a national cyber defense competition.	U.S. Air Force
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Amazon.com Security Researcher Discovered a serious vulnerability in Amazon.com's web interface, allowing for the account theft of anyone who clicked on a malicious link. Bug was reported to Amazon so it could be remediated.	Amazon.com, Inc.
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Cryptography Certification Completed Stanford University's online Cryptography program through Coursera.	Stanford University
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