

Ajay Kristipati

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Education

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| North Carolina State University - Raleigh, NC | 08/2021 - 12/2023 |
| Masters in Computer Science | |
| University of Washington - Seattle, WA | 09/2018 - 06/2021 |
| Bachelor of Science in Computer Science | |

Work Experience

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| Cisco, Software Engineer | 08/2021 - Present |
| • Developed and integrated features in Cisco products to achieve federal security certifications including FIPS and IPv6 in order to increase public-sector sales revenue by 20% | |
| • Improved security for Department of Defense applications by implementing Post-Quantum Cryptography in AnyConnect VPN , improving alignment with federal standards | |
| • Integrated IPv6 support into the Identity Services Engine (ISE) to broaden network protocol capabilities | |
| • Implemented an automated regression testing framework for out-of-tree Linux kernel modules across diverse platform configurations and kernel ABIs | |
| • Streamlined company-wide security efforts by packaging cryptographic utilities across Cisco offerings like Cisco Unified CallManager (CUCM) and Integrated Service Router (ISR) to meet FIPS standards | |
| • Backported changes to RSA from OpenSSL 3.x to OpenSSL 1.1.x in order to maintain FIPS Compliance | |
| • Maintained internal versions of OpenSSL and OpenSSH , and Python for use across Cisco products across 50+ teams | |

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| IBM, Full-Stack Development Intern | 06/2019 - 08/2019 |
| • Member of IBM Product Development team, focusing on Talent Management and Virtual Training systems for global employees. | |
| • Created educational software integrating Docker and RHEL into training modules, improving course completion rates by 30%. | |

Projects

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| 2026 CKC Badge | Dec 2025 - May 2026 |
| • Member of the team that developed the official conference badge for the CKC Security Conference in Raleigh, NC | |
| • Used C to write firmware for ESP32 -based badges, in order to handle WiFi connectivity and communication with the backend servers using GRPC and MQTT | |
| • Used Kubernetes to run backend servers for the event, and protecting system integrity from adversarial attacks | |

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| PGP2OpenSSH | Nov 2025 |
| • A Rust Utility to convert PGP keys to OpenSSH format, enhancing interoperability between encryption systems | |

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| Mirafetch | Jul 2023 - Present |
| • Created a high-performance cross-platform system monitoring tool in Rust , achieving an 8000% performance boost over similar tools through optimized multithreading. | |

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| Homelab | Jan 2021 - Present |
| • Built a high-availability container and VM infrastructure using Kubernetes and Proxmox , achieving fault tolerance and efficient resource distribution with reproducible Nix configurations | |
| • Implemented a distributed storage system using Longhorn , to ensure data redundancy and high availability across multiple nodes | |

Technical Skills

Programming Languages: C, C++, C#, Go, Java, JavaScript, TypeScript, Python, Rust, Swift

Technologies: Agile, Bash, Ceph, Docker, Flask, Jenkins, Kubernetes, Linux, Nix, Proxmox, React