

# Cash Ferguson

📞 (425) 555-1234

✉️ cash.ferguson@example.com

🌐 linkedin.com/in/cashferguson

📍 123 Elm Street, Bellevue, WA 98004

## SUMMARY

Detail-oriented Computer Science student. Hands-on experience in software development and cloud computing. Proficient in Python and Java. Solid understanding of CI/CD pipelines and automation tools. Demonstrated ability to collaborate effectively within a technical team, applying strong analytical and problem-solving skills. Passionate about leveraging technology for enhanced software delivery and operational efficiency. Committed to building connections with peers and contributing to high-impact projects.

## EDUCATION

### Bachelor's Degree in Computer Science

2026

University of Washington GPA: 3.8

Seattle, WA

*Coursework: Software Development, Cloud Computing, Data Structures, Algorithms*

## TECHNICAL SKILLS

- **Programming Languages:** Python, Java, C#, JavaScript, Go
- **Version Control Systems:** Git
- **Operating Systems:** Linux, Windows
- **Development Methodologies:** Agile
- **Containerization:** Docker, Kubernetes
- **Infrastructure Tools:** Terraform, Ansible, CloudFormation
- **Cloud Platforms:** AWS, Azure, Google Cloud
- **Networking Concepts:** TCP/IP, DNS, HTTP, HTTPS
- **Observability Tools:** Prometheus, Grafana, ELK Stack
- **Scripting Languages:** PowerShell, Bash

## SKILLS

- Python
- Java
- Git
- Docker
- Kubernetes
- AWS
- Terraform
- CI/CD
- Agile methodologies
- Linux
- Networking
- Troubleshooting
- Data Analysis
- Automation
- Frameworks
- API Design

## EXPERIENCE

### Software Engineering Intern

January 2026 - Present

University Project

Seattle, WA

Focused on developing and optimizing CI/CD workflows and supporting automated deployments for various academic initiatives. Collaborated closely with teams to improve overall delivery processes and enhance user experiences through innovative solutions.

- Developed and optimized CI/CD pipelines, improving deployment efficiency by 30%.
- Created automation scripts using Python to streamline testing processes, reducing manual effort significantly.
- Implemented Docker containers for application deployment, enhancing scalability across multiple environments.
- Designed Infrastructure as Code (IaC) solutions using Terraform, enabling rapid environment setups.
- Engaged in Agile practices, participating in sprint planning and code reviews to uphold quality standards.
- Integrated monitoring tools as part of observability initiatives, tracking performance metrics proactively.

### Cloud Application Developer

September 2025 - December 2025

Capstone Project

Bellevue, WA

Delivered a fully functional cloud-native application designed for extensive user engagement, leveraging modern technologies to ensure a seamless user interface and efficient backend operations.

- Architected a cloud-native application on AWS, serving over 1,000 users seamlessly.
- Implemented RESTful APIs in Java, facilitating effective data transactions with external systems.
- Conducted thorough user testing, iterating on feedback for enhanced functionality.
- Utilized Git for version control, maintaining integrity during collaborative efforts.
- Authored comprehensive documentation detailing architecture and protocols for future reference.
- Presented results to faculty, receiving commendations for clarity in technical delivery.

## Research Assistant

January 2025 - May 2025

Academic Research

Seattle, WA

Supported cybersecurity research initiatives by analyzing data sets while automating elements of data collection and presentation, revealing significant trends to enhance project findings.

- Assisted in cybersecurity analysis, identifying vulnerabilities affecting cloud infrastructures.
- Developed PowerShell scripts for data automation, substantially improving research workflow.
- Collaborated with researchers in preparing findings for publication in journals.
- Contributed towards experiment design, enhancing overall quality and accuracy of outputs.
- Participated in weekly reviews, sharing insights on cybersecurity trends.
- Created visual presentations to convey complex research findings to diverse audiences.

## LEADERSHIP & AWARDS

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- Dean's List, University of Washington (2025)
- First Place, Hackathon at University (2025)

## CERTIFICATIONS

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- AWS Certified Cloud Practitioner 📅 2026
- Certified Kubernetes Administrator 📅 2026

## PROFESSIONAL AFFILIATIONS

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- Member, Computer Science Club (2024 - Present)
- Team Lead, University Coding Competition (2025)

## LANGUAGES

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- English (Native)
- Spanish (Intermediate)

## ADDITIONAL INFORMATION

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**Work Status** : Authorized to work in United States. No sponsorship required.

## REFERENCES

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AVAILABLE ON REQUEST