

# PARAMVEER SINGH

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## Education

**Washington State University** Bachelor of Science in Computer Science

Pullman, WA

President's Honors Roll: Spring 2026

Expected Fall 2027

Courses: Data Structures, Object Orientated Software Principles, Software Engineering I, Programming Language Design

## Skills

Languages: Java, TypeScript, JavaScript, Go, Python, Swift, SQL, NoSQL

Frameworks: Spring Boot, React, Next.js, SwiftUI, Tailwind CSS

Cloud/Tools: AWS (ECS, EC2, S3, RDS, CloudFront, IAM), Docker, GitHub Actions, CI/CD

Concepts: PostgreSQL, Linux, Git, Design Patterns, ABAC, REST APIs, Agile

## Experience

**Undergraduate Research Assistant** Washington State University | [GEML](#) | [P-MART](#)

Pullman, WA

Jan 2026 — Present

- Manually Analyzed **270+ design pattern instances** across 25+ pattern types to validate ML detection model accuracy, identifying misclassifications that strengthened evaluation criteria for automated pattern recognition research.
- Earned a **faculty recommendation letter** from [Ziyi Zhang](#) for leadership and technical contributions.

**Software Engineer Intern** Platform Points | [Bookingops.com](#) | [GitHub](#)

Mill Creek, WA

May 2025 — Aug 2025

- Built and deployed a full-stack booking platform integrating external providers (**Bókun API, Viator, etc.**) with automated transactional **Webhooks, JWT + Google 2FA authentication**, and 29 secure API endpoints with ABAC.
- Architected scalable backend using **Java Spring Boot** and **AWS Cloud Technologies** (ECS, EC2, S3, CloudFront, RDS Aurora, ALB, IAM, CloudWatch) ranging up to **15,000+** lines of production-level code.
- Implemented **CI/CD pipelines** with GitHub Actions to improve deployment reliability and reduce manual release effort.

**Technical Lead** Bennett University — BC3 Club | [Letter of Recommendation](#)

Greater Noida, India

Oct 2023 — May 2024

- Led a 4-member team** to design and launch the club's official website, prioritizing scalability and clean code for long-term maintenance.
- Optimized performance through compression and lazy loading, reducing page load times by **40%** and significantly improving user experience.
- Earned a **faculty recommendation letter** from [Dr. Simarpreet Singh](#) recognizing leadership and technical contributions.

## Projects

**GNOME Shell Extension** Collaborator

[Compact top bar](#) | *JavaScript, GNOME Shell, Linux, UI Customization*

- Adds transparency effects (including notification tray) and slims the top bar for more space.
- 95,000+ downloads** on Gnome extensions store

**HealthCam** Crimson Code 26'

[GitHub](#) | [Devpost](#) | *Swift, SwiftUI, AVFoundation, CoreImage, Combine, Real-Time Signal Processing*

- Placed **15th out of 163** teams at Crimson Code 26 hackathon, building a real-time iOS healthcare app that analyzes biometric signals and delivers AI-assisted feedback for users without immediate medical access
- Integrated ElevenLabs and LiveKit APIs to enable **real-time voice interaction** and feedback within the application.

## Certifications

- Introduction to Programming — University of Helsinki | Issued 2024 | [Credential](#)
- Java Programming I — University of Helsinki | Issued 2024 | [Credential](#)

## Additional

- Selected as one of 35** students for the Costco IT Open House & Tour, a selective, invitation-only IT industry event. (Alaska Airlines-sponsored).