

# Savit Pawar

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CS @ UW · ML systems, agentic tooling, full-stack.

## EDUCATION

### University of Washington

Seattle, WA

Bachelor of Science in Computer Science - 3.91 GPA

Sept. 2025 – June 2028

- Relevant Coursework: Calculus 3, Discrete Mathematics, Hardware/Software Interface, Data Structures and Parallelism, Linear Algebra, Intro to Software Engineering

## EXPERIENCE

### Undergraduate Researcher

June 2026 – Present

University of Washington | PLSE (Programming Languages and Software Engineering Lab)

Seattle, WA

- Built an agentic LLM-driven **C-to-Rust pipeline** producing **byte-level-accurate** Rust verified against tests.
- Enabled automated byte-level equivalence checks by porting C test suites to **Google Test** in a reproducible harness.
- Measured translation accuracy on real-world code by curating 2 open-source C repositories as validation benchmarks.
- Extended an **LLVM-based C call-graph tool** to detect indirect function-pointer call sites missed by the standard pass.

### Computer Science Teaching Assistant

June 2026 – Present

University of Washington

Seattle, WA

- Reinforced systems concepts for a **40-student** course by leading weekly quiz sections and discussions for **20** students.
- Ensured timely, accurate feedback by evaluating student labs and quizzes with consistent, detailed grading.
- Improved access to help outside class hours by answering student questions on the course's online forum.

### Lab Systems Intern

Nov. 2025 – June 2026

University of Washington | SEAL (Sensors, Energy, and Automation Lab)

Seattle, WA

- Cut per-person weekly reporting from **45 to 10 min** across a **50-person lab** by leading a Claude Code chatbot build.
- Drove a measured **37%** efficiency gain by maintaining two lab-wide tracking systems (Sheets and web) for coordination.
- Improved workload visibility by redesigning the lab dashboard to surface each member's completed work and next tasks.

## PROJECTS

### Sokoban Environment | Python, JavaScript, BFS pathfinding, JSON/HTTP API, Three.js

- Won track and placed 2nd overall out of all teams at a **Google-sponsored, Google-judged** hackathon.
- Built a Sokoban RL benchmark for **LLM agent 3D perception** with elevation/box mechanics and BFS-verified maps.
- Visualized Agent thought process move-by-move in a 2D/3D browser replay viewer to better understand decision making.

### LaunchHQ | Next.js, Vercel, Neon, Stripe

- Grew a full-stack SaaS waitlist platform to **40+ users** and **20+ live waitlists** via billing, custom domains, and widgets.
- Reduced signup friction with an **embeddable widget** and referral system that collects signups on client sites.
- Cut email setup to **near-zero config** by integrating Resend for transactional email and Stripe webhooks for billing.
- Learned **search engine optimization** bringing launchhq.space to the **first page of Google** on many occasions

### Talus | Python, XGBoost, scikit-learn, SHAP, Google Earth Engine

- Achieved **0.90 AUC-ROC** predicting landslide susceptibility across Washington at 10m via XGBoost and spatial CV.
- Flagged **46.8%** of landslide pixels as High/Very High risk (vs **15%** stable) on a blind holdout of the 2014 Oso zone.
- Predicted across **450M pixels** from 8 features over 7 geospatial sources; SHAP ranked precipitation and elevation top.
- Designed chunked raster pipeline for statewide predictions on **24GB RAM**, processing **60K×40K** grids in 1000-row strips

## TECHNICAL SKILLS

**Languages:** Java, Python, JavaScript, HTML/CSS, SQL, Rust, C

**Frameworks:** React, Next.js, Tailwind CSS, Streamlit

**AI/ML:** Claude Code, prompt engineering, XGBoost, scikit-learn, SHAP, pandas, NumPy, Function Calling, Hugging Face

**Tools:** GitHub Copilot, Git, Power BI, VS Code, Google Test