# SAMUEL BEAL

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https://sambeal.dev/

https://github.com/spbeal

#### **EDUCATION**

Moscow, ID University of Idaho Fall 2023 – December 2025

- B.S in Computer Science, December 2025. GPA: 3.8/4.0
- Artificial Intelligence and Machine Learning Academic Certificate.
- Relevant Coursework: Databases, Compilers, Data Structures, Algorithms, Computational Biology.

Auburn, WA

### **Green River Community College**

Fall 2021 - June 2023

Associate in Arts, June 2023. GPA: 4.0/4.0

#### SKILLS

- Tech Stacks: React, TypeScript, JavaScript, Golang, Python, PureScript, C/C++/C#, HTML/CSS, Flask.
- Tools & Platforms: Git, UNIX, Docker, Kubernetes, CI/CD, Node.js, PostgreSQL, MUI.
- **Domains:** Embedded Systems, Networking, REST APIs, Agile/Scrum.

#### **PERSONAL PROJECTS**

Personal Website: www.sambeal.dev/portfolio (for additional projects and information)

## SurgeV (Website)

Jan 2025 – Present

• Developed an ecommerce website with real products purchased using stripe payment intent. <u>Utilized:</u> Next.js, Stripe, Node.js, TypeScript, JavaScript, Tailwind CSS.

## Sketchkey – CrimsonCode 2025 Hackathon WSU (GitHub, devpost)

Feb 2025

- Global ranked Pictionary designed to filter user generated images as input to a generative AI model.
- Developed a canvas, profile with authentication, and hit REST API endpoints between React and Django.
- <u>Utilized:</u> React, Vite, Django, k3d, MUI, JavaScript, Python, Docker, AWS.

## Crafty3D – Winner at CrimsonCode 2024 Hackathon WSU (GitHub, devpost)

Feb 2024

- Built a Minecraft clone with Voxel rendering and Perlin noise in 24 hours.
- Primarily worked on building shaders, UI, Perlin Noise generation, and factoring the codebase.
   <u>Utilized:</u> C++, Raylib, stb, zig, Git.

#### **EMPLOYMENT**

## Associate Software Engineer - R&D Schweitzer Engineering Laboratories

Jan 2025 - Present

- Built full-stack containerized applications for embedded systems using React, MUI, TypeScript/JavaScript, with Golang backends, PostgreSQL, and OpenAPI.
- Delivered full-stack features in **PureScript**, extending functionality across existing applications.
- Refactored and migrated tens of thousands of lines of C# into a Golang package enabling efficient CRUD
  operations on Windows Structured Storage files (CFB format).
- Advanced the development of DTS (a custom Golang-based language with Nuclio), and wrote automation scripts that interfaced with relays, REST APIs, network protocols, and authentication systems.
- Designed, containerized, and deployed applications using Docker, Kubernetes, and Jenkins CI/CD pipelines.
- Collaborated in an **Agile Scrum environment** (*Jira, Confluence, Bitbucket*) contributing to **code reviews, sprint planning, releases,** and **cross-team communication**.

#### **Web Developer Intern**

## Friends Of the Clearwater

Nov 2024 - Jan 2025

- Implemented an embedded donation page using Stripe to enhance UX and streamline the donation process
- Improved website aesthetics through design principles and added features such as a newsletter pop-up.

#### **Academic Tutor**

## **University of Idaho**

Sep 2024 - Present

- Directly worked with a diverse range of students & topics.
- Expanded my ability to adapt and articulate advanced programming concepts.
- Valedictorian @ Enumclaw High School: Graduated HS with an associate degree and a 4.0/4.0 GPA.
- Eagle Scout (2022).
- University of Idaho ACM Club (2024-Present), Rugby Club (2024-Present), Water Polo (2024-2025).