William (Liam) Snow IV

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SKILLS

- **Programming Languages**: Rust, Golang, C, C++, Python, Java, C#, TypeScript, JavaScript, Lua, LabVIEW, Bash
- **Technologies**: Tokio, Axum, Actix, Dioxus, Leptos, Gin, SQL (SQLite, PostgreSQL, RDS), NoSQL (GC Datastore), Embedded Databases (SledDB), Embeddings/Vector Databases (ChromaDB), GNU/Linux, Unix, Git, GitHub, REST, WebSockets, GCP, Multi-threading, Async/Await

PROJECTS

igloo (liamsnow.com/projects/igloo)   Jan 2025 — Present
- Intuitive and smart home automation platform connecting 10+ providers
- Developed visual node-based programming language with custom lexer, parser, and evaluation. Uses Dioxus for front-end
- Handles concurrent connection to 100+ devices
- Clean Axum API (Websocket + REST). Custom rolled authentication & permissions

opensleep (liamsnow.com/projects/opensleep)   Nov 2024 — Present
- Developed open source firmware for the Eight Sleep Pod 3 in Rust
- Reverse-engineering two custom binary USART protocols using strace
- Runs Actix webserver, MQTT, microcontroller communications, and custom scheduler

WORK EXPERIENCE

Security Intern   Jun 2025 — Aug 2025
Cyera, Inc.   *Remote*
- Developed a security investigation summarizer Slack bot in Golang
  - Saves >100 hours a year
  - Collects data from Slack and other sources and builds a report using AWS Bedrock in ~1 minute
- Made VM automation which automatically finds new CVEs across multiple security tools (Snyk, Upwind, etc.) and sends results over Slack
- Developed security news article downloader which automatically scrapes readable content from web pages and formats them into a NextJS article reader
- Made dashboard which displays security team's contributions to sales. Uses Atlassian Jira and Salesforce APIs in Golang

Software Intern   Jun 2023 — Aug 2024
Phreesia, Inc.   *Remote*
- Worked on a team to develop a complete rewrite of the Integrations software
  - Used .NET Core, Websockets, and REST APIs
- Developed Atlassian Confluence RAG chatbot to help users find answers and cite sources
  - Used Confluence API, OpenAI embeddings, ChromaDB, and LangChain

Backend Developer   May 2024 — Jul 2024
Veripay, LLC   *Remote*
- Developed alpha prototype for startup in 10 weeks
- Created AWS backend using Terraform
- Made Lambda functions using Golang with Gin and PostgreSQL

Software Intern   Jun 2019 — Oct 2020
Naval Postgraduate School   *Monterey, CA*
- Worked under Professor Ray Gamache for programming and assembling robots
- Programmed LIDAR, ultrasonic, radar, AHRS, and GPS sensors in LabVIEW

EDUCATION

Worcester Polytechnic Institute   Worcester, MA
BS in Electrical & Computer Engineering
MS in Computer Science   *Aug 2022 — May 2026*