

William (Liam) Snow IV

mail@liamsnow.com | github.com/liamsnow | linkedin.com/in/william-snow-iv-140438169 | liamsnow.com

SKILLS

- **Programming Languages:** Rust (2 years), Golang, C, C++, Java, C#, Python, TypeScript, JavaScript, Bash
- **Technologies:** Tokio, Axum, Actix, Dioxus, Leptos, Gin, SQL (SQLite, PostgreSQL, RDS), NoSQL (GC Datastore), Embedded Databases (SledDB), Embeddings/Vector Databases (ChromaDB), Linux (Debian, Yocto, Arch, NixOS), Unix, Git, GitHub, CI/CD (GitHub Actions), REST, WebSockets, GCP, Multi-threading, Async/Await

PROJECTS

opensleep (81★) (github.com/liamsnow/opensleep) Nov 2024 — Present

- Developed open source firmware for the Eight Sleep Pod 3 in Rust
- Reverse-engineering two custom USART protocols
- Runs MQTT, STM32 comms, scheduler, presence detection, ..

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

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
- Used AWS, Terraform, Lambda functions, Golang, Gin, RDS

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