

## John Siegel

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Portfolio: <https://john-siegel.com>

### Education

**B.S. Computer Science**, Expected graduation: December 2023  
Virginia Polytechnic Institute & State University (Virginia Tech), Blacksburg, VA

### Skills

Languages	Experience	Confidence (1-10)	Frameworks, Tools, & Concepts	
Dart	2 years	10	Flutter BLoC	RiverPod Build Runner
C++	2.5 years	9	Qt OpenGL Template Metaprogramming	OpenCV CMake
TypeScript	2 years	9	React Jest AWS SDK	Svelte(Kit) Express Prisma (ORM)
Python	2 years	9	Numpy PyTorch TensorFlow Qt	Matplotlib SciPy Pandas AWS CDK
Java	10 years	6	JUnit JDK	
Go	1 year	5	thunder (GraphQL) Gin (http)	

### Experience

#### **Stellar Science, Scientific Software Engineer Intern**, 05/2022 – Current

- Developing C++ software for physics simulation and image manipulation
- Working on tasks related to computer vision and graphics
- Creating GUIs with Qt
- Practicing test-driven development techniques in a team with 35+ developers

#### **Phitnest, Development Team Lead**, 03/2022 – Current

- Leading a team of 8 developers from India, New Zealand, Nigeria, and the United States
- Writing technical documentation and a developer wiki

- Organizing sprints, holding scrum, and using a Kanban on Notion
- Gaining experience using DGraph, AWS CDK, and Flutter to develop a cross-platform mobile app
- Working directly with UX professionals, market researchers, doctors, and customers

**Project Shinobi, C++ Developer, 10/2021 – 05/2022**

- Developing a video game with Unreal Engine 5
- Working in a team of 20 developers
- Wrote AWS Lambda functions for a massively multiplayer online game
- Setup a CI / CD pipeline with GitHub actions
- Earned 3.5+ million views on a YouTube demo

## **Hackathons**

**HackViolet, Virginia Tech, 02/2023**

- Developed a Flutter app with Firebase authentication and Firestore
- Completed the full stack app with a team of 1 developer and 1 designer

**VTHacks, Virginia Tech, 11/2021**

- Developed a website with Flutter, Go, and PostgreSQL
- Used AWS to deploy for a live demo
- Used an API for an AI chat bot

**Lockheed Martin CodeQuest, Suffolk, VA, 2017**

- Won 1<sup>st</sup> place in the first-time competitor division
- Won 3<sup>rd</sup> place overall