

# BRUCE BLAKE

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Relevant Links: [LinkedIn](#) | [GitHub](#) | [Portfolio](#)

## EDUCATION

### Virginia Tech

B.S Computer Engineering | Minor in Computer Science |

Blacksburg, VA

In Major GPA: 3.85

## WORK EXPERIENCE

### Google, Inc. - | Java | Angular | TypeScript | Proto |

May 2025 - August 2025

Associate Software Development Intern

Mountain View, CA

- Incoming 2025 Associate Software Development Intern on the **Play Books** team

### Red Bar Sushi - | Python | FastAPI | PostgreSQL |

September 2024 - February 2025

Freelance Software Engineer

Remote

- Architected and developed a full-stack **AI-driven** voice ordering system, integrating **Open AI's Realtime API** for **NLP** and **Twilio ConversationRelay** for real-time voice processing serving **600+** users and **\$15,000+** in revenue
- Built a multi-agent orchestration system using a **FSM** to manage complex conversational flows using **OpenAI Agents SDK**
- Designed and implemented **FastAPI** backend services utilizing **PostgreSQL** for persistent storage and **Redis** for caching
- Utilized **Celery** for **asynchronous background task processing**, such as order processing and notifications

### ScaleAI - | Swift |

August 2024 - November 2024

AI Trainer - Coder

Remote

- Tasked with training **LLM's** to use various **tools** accurately and giving written as well as coding examples and explanations
- Analyzed **Swift** code snippets generated by **LLM's** to ensure accuracy with a user's prompt and update code accordingly

### Google, Inc. - | Java | TypeScript | Angular | Proto |

May 2024 - August 2024

STEP Intern

Sunnyvale, CA

- Created an **ML-powered recommendation** feature for Buganizer, for issue similarity based on titles and existing hotlist data.
- Streamlined issue management on Google's internal company-wide issue tracker (Buganizer), a system supporting workflows for over **2.5 million** monthly active users.
- Developed the system using **Java** with **Apps Framework**, and **TypeScript** with **Angular**, including a **queue messenger**.
- Authored **design & implementation documentation**, and successfully launched the feature internally within 12 weeks

### Caught Up [App Store Website](#) - | Flutter | Dart

November 2023 - March 2024

Cofounder / CTO

McLean, Virginia

- Co-Founded a social media app startup for creating and managing events created by either existing, or new friends
- Collaboratively developed with teammates, creating features like a Shared Calendar, Create/Join Events, and messaging

## TEAMS & ACCOMPLISHMENTS

### Hackathon Winner - "Memegen" [Winning Post](#) - | React | Express | Firebase | TypeScript |

September 2024

*Winner among 670+ participants at VTHacks 12th annual Hackathon (Successfully delivered within 36 hours)*

- Created full **CRUD** operations, a responsive UI with 20+ templates and backend using **Express & Firebase**

### The Diggeridoos At Virginia Tech [Diggeridoos](#) - | React | Express | JavaScript |

August 2023 - April 2024

*1st team in North America to dig at Elon Musk's "Not-A-Boring-Competition" (12 of 400+)*

- Developed **core control logic** using a **FSM** & a **GUI** with dead reckoning navigation for real-time positioning & data logging.

## TECHNICAL PROJECTS

### 3D Physics Engine & FPS Multiplayer Game - | C++ | OpenGL | SDL | ImGui | Docker |

- Created a 3D Physics & Game Engine as well as a game featuring role-based gameplay with scoring and leaderboards
- Integrated **ENet** for **low-latency** multiplayer **networking** and dynamic asset loading with **Assimp** and **stb\_image**

### Full Stack iOS Social Media App [Demo](#) [GitHub](#) - | Swift | SwiftUI | Firebase |

- Features include authentication, friend management, groups, calendars, galleries, events, posts, pagination, location
- Organized codebase with **20K+** lines of code using **MVVM architecture pattern**

## SKILLS

**Programming Languages:** Java | Swift | C# | C++ | Typescript | Javascript | HTML | CSS | Dart | Python | Proto

**Frameworks:** SwiftUI | React | Flutter | Angular | Flask | FastAPI

**Technologies:** Node.js | Firebase | Git | Docker | Arduino | Linux | Express | AWS