

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: 3.7

WORK EXPERIENCE

Google, Inc. [Google](#) - | Java | Kotlin |

May 2025 - August 2025

STEP Intern

Mountain View, CA

- Incoming 2025 STEP Intern on the Products and Devices team

Scale AI [Scale AI](#) - | Swift |

September 2024 - January 2025

AI Trainer - Coder

Remote

- Helped various LLMs generate better code by evaluating and testing the quality of AI-generated code responses
- Wrote functional and optimized Swift code to refine AI responses with explanations, enhancing response accuracy

Red Bar Sushi [Red Bar Sushi](#) - | Python | Flask | MySQL |

November 2024 - February 2025

Freelance Software Engineer

Remote

- Developed an AI-driven order system using Python and Flask that handles inbound phone calls via Twilio, serving over 600 customers and generating \$15,000+ in revenue.
- Implemented fuzzy-search algorithm using Levenshtein distance to match user input against the menu
- Leveraged OPENAI API for NLP to accurately parse customer orders and interactions
- Managed menu data in a Flask app backed by MySQL and JSON file storage

Google, Inc. [Google](#) - | Java | TypeScript | Angular | Proto |

May 2024 - August 2024

STEP Intern

Sunnyvale, CA

- Created a recommendation system that reduced the cost of manual issue management, used by 2,500,000+ people a month
- Wrote a design doc, and an implementation plan, went through design reviews, and launched internally
- Full stack development, using Java with Apps Framework, TypeScript with Angular, HTML, CSS
- Utilized vector word embeddings as the machine learning model to label “similar” issues

TEAMS & ACCOMPLISHMENTS

VTHacks 12 - “Memegen” [Winning Post](#) [GitHub](#) - | React | Node.js | TypeScript |

September 2024

Category Winner among 670+ participants at VTHacks 12th annual Hackathon

- Built using ReactJs, NodeJs, and TypeScript, successfully delivering within a 36-hour hackathon
- Implemented all CRUD operations with the ability to view and post memes with 20+ templates available

The Diggeridoos At Virginia Tech [Diggeridoos](#) - | React | Node.js | JavaScript |

August 2023 - April 2024

1st team in North America to dig at Elon Musk’s “Not-A-Boring-Competition”

- One of 12 selected out of nearly 400 international teams to build a machine capable of boring tunnels
- Created an Express server capable of sending, receiving, and logging control and sensor data
- Implemented “dead reckoning” system for navigation in GUI interface built using ReactJs

American Computer Science League [Competition #1 #3](#) - | Java |

August 2020 - April 2022

- Placed 3rd in Senior Division solving complex software problems under a time limit
- Placed 1st in Intermediate Division solving complex software problems under a time limit

TECHNICAL PROJECTS

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

Hopfield Network Simulator [GitHub](#) - | Java |

- Demonstrated the behavior of the Hopfield network’s ability to converge on stable states
- Implemented the core logic, including neuron states, weight matrices, and energy functions

SKILLS

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

Frameworks: SwiftUI | React | Flutter | Angular | Flask

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