

# Daniel Benish

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## EDUCATION

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### Virginia Tech

Bachelor of Science in Computer Science

Minors in Mathematics, Quantum Information Science and Engineering

GPA: 4.0

Awards: President's List for all semesters

Relevant Coursework: Data Structures and Algorithms, Software Design, Computer Organization, Applied Combinatorics

Blacksburg, VA

August 2023 - May 2027

## PROFESSIONAL EXPERIENCE

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### Anavation, LLC.

Software Engineer Intern

Chantilly, VA

May 2025 - August 2025

- Developed a full-stack fantasy football app as part of a 3-intern team, building a Python-based API with MongoDB and deploying serverless architecture using AWS Lambda, Step Functions, and AppSync
- Engineered mobile frontend with React Native and Expo, integrating real-time updates and user interactions, and deployed the app via AWS Amplify for seamless CI/CD
- Worked in an agile Scrum team, contributing to sprints, standups, and code reviews while building scalable data models, implementing auth, and debugging full-stack functionality across backend and mobile frontend

### Cook Illinois Corporation

Office & IT Intern

Oakbrook, IL

Summers of June 2019 - August 2024

- Processed vital regulatory filing of bus driver information for the Illinois Workers Compensation Commission, ensuring compliance with regulatory state law
- Incorporated new Windows workstations into the existing office framework, prioritizing security and confidentiality of sensitive corporate information
- Conducted data entry and organization of vehicle operation details for human resources with Excel

## LEADERSHIP & VOLUNTEERING

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### Osteogenesis Imperfecta Foundation

Assistant to Co-Chairs

Oakbrook, IL

Summers of August 2019 - Present

- Assisted in running annual charity golf outing that consistently raised more than \$25,000 for research and support benefiting those with a rare bone condition
- Created a database of contact and financial information for attendees with Excel
- Organized various charity offerings, including prize holes, giveaways, and raffles

### Sigma Phi Delta Engineering Fraternity, Beta Delta Chapter

Housing Chair

Blacksburg, VA

January 2024 - May 2024

- Cooperated with 55 fellow members to plan and execute various charity and social events
- Coordinated budget and spending for fraternity operations

## PROJECTS

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### Policy-Safe Prompt Validation Library | TypeScript, Docker, Kubernetes, MongoDB

- Package for validating and templating LLM prompts for use in internal models
- Wrote a TypeScript API to validate template construction, variable type, and policy adherence of user prompts
- Constructed a MongoDB database to store custom template and policy rule definitions per system instance
- Built a command line interface and hosted web GUI to access the system according to stakeholder requirements

### Ising Model Simulation Package | Python, NumPy, NetworkX, Simulation & Modeling

- Built a modular Python package to simulate bitstring-based configurations and interactions using custom BitString and IsingHamiltonian classes
- Implemented both exact and Monte Carlo algorithms to estimate average values like energy and magnetization of systems at varying temperatures
- Used NetworkX to define and analyze graph-based systems, with optimized update methods for efficient simulation performance

## TECHNICAL SKILLS

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Languages: Python, Java, C, C++, TypeScript

Frameworks & Databases: React, Next.js, MongoDB, DynamoDB, NumPy, D3, Pandas, Matplotlib

Tools & Platforms: Git, AWS (Lambda, AppSync, Step Functions, Amplify, S3, CDK), Docker, Kubernetes, Kanban