JINNY EO

Full Stack Developer combining engineering depth with user-centered functionality
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EDUCATION

GRINNELL COLLEGE Grinnell, Iowa
Bachelor of Arts, Computer Science Expected Graduation: May 2026
Selected Coursework: *Object-Oriented Problem-Solving, Data Structures & Algorithms, Software Development, Algorithms & Ethics, Graph Theory, Linear Algebra*

AQUINCUM INSTITUTE OF TECHNOLOGY Budapest, Hungary
Study Abroad Semester January 2025 - May 2025
Selected Coursework: *UI/UX, Mobile Development, Theory of Computing, Budapest Studies*

EXPERIENCE

Youphoria **Remote**
Software Developer (Technical Lead), Intern *January 2025 - Present*
- Shipped core iOS features for 1000+ users, improving load times by 20% and user responsiveness by 30%.
- Led a 5-member tech team through sprints and code review, increasing release velocity by 30%.
- Built real-time messaging and per-user per-group group notifications with Swift and Firestorm, improving response latency by 20%**.**
- Refactored UI components and modularized the codebase, reducing onboarding time for new developers by 40%.

ELBICA (Enhancing Lives with Bio-Inspired Computational Approaches) Lab, Grinnell College **Grinnell, IA**
Research Assistant *May 2024 – December 2024*
- Conducted research on bio-inspired AI, developing a cognitive model integrating distributed representations in multimodal architectures.
- Performed literature review of 50+ research papers to design a Bayesian approach for precise causal inferences in reasoning.
- Improved model computational efficiency by 20% by optimizing verbal and visual reasoning processes.

Girls Who Code **Grinnell, IA**
Facilitator *August 2024 – Present*
- Led 2 weekly coding sessions for a total of 30+ female or nonbinary students, introducing computer science fundamentals using Sphero robots and taking initiative to transition to more challenging mBots, improving student engagement by 30%.
- Developed and led robotics projects integrating sensors and motors with block-based coding, boosting hands-on coding skills by 40%.
- Guided hands-on projects with a 95% completion rate by facilitating collaborative coding practices including pair programming.

ML/AI Club, Grinnell College **Grinnell, IA**
Leader *August 2024 – December 2024*
- Organized meetings twice weekly and led projects for 30 students to learn ML/AI concepts, ranging from beginner to advanced.
- Delivered technical talks on ML/AI projects and industry concepts such as introductions to RL, hackathons, and more to club members.
- Led a group of 4 students for a full-stack recommendation engine utilizing the KNN algorithm and HTML, CSS, and JavaScript to suggest from a range of 128 quotes tailored to user preferences by using Scrum from Agile technologies.

PROJECTS

Custom Unix Shell | C, Linux System Programming
- Built a Unix-like shell supporting background processes, sequential command execution, and 4+ built-in commands, enabling concurrent command execution that reduced user wait time by 40%.
- Implemented process control via fork, execvp, and waitpid to handle synchronous and asynchronous process executions, after testing and debugging 50+ command scenarios to ensure robustness and error handling.

Sorting Algorithm Visualizer | HTML, CSS, JavaScript, Flask, Matplotlib, Numpy
- Implemented a full-stack Flask web application to visualize the bubble, merge, and insertion sorting algorithms in real-time.
- Achieved smooth rendering of Matplotlib algorithm animations at 30+ frames per second for datasets up to 1,000 elements.
- Reduced algorithm computation time by 25% by optimizing data structure and vectorized operations in Numpy, ensuring scalability.

TECHNICAL SKILLS & CERTIFICATIONS

Programming Languages: Python, C, Java, Scheme, R, JavaScript, HTML, CSS, SQL, CUDA, Swift
Environments/Tools: Flask, Django, React.js, Next.js, Node.js, PostgreSQL, Git, Numpy, Matplotlib, Scikit-learn, TensorFlow, Firebase, AWS
Certifications: AWS Introduction to Computing, AWS Getting Started with Storage

AWARDS & SCHOLARSHIPS

1st Place in Grinnell College Innovation Hackathon ($500) | *Grinnell College* *March 2024*
Benjamin A. Gilman International Scholarship ($3,000) | *U.S. Department of State* *December 2024*
Founder's Scholarship ($130,000) | *Grinnell College* *August 2022 - May 2026*