Gabriel Shores

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EDUCATION

Indiana University - Bloomington, IN   May 2026
B.S. Computer Science, Mathematics   **GPA:** 3.95 / 4.00
Honors & Awards: Cox Scholar, Luddy Scholar, Hutton Honors College, Provost Scholar, Luddy Dean's List, Founder's Scholar, Executive Dean's List

SKILLS

Technical Skills: Java, Unit Testing (JUnit), JavaScript, HTML, CSS, React.js, Tailwind, Android Studio, Python, PyTorch, NumPy, C, SQL
Relevant Coursework: Software Systems, Machine Learning Theory, Android Development, Data Structures, Honors Discrete Structures, Calculus I-IV, Linear Algebra, Differential Equations

PROJECTS

Luddy Scholars' Eclipse Team
- Integrated OBS, NDI, and networking technologies to capture and stream live footage of the Great American Solar Eclipse, reaching over 3,000 online viewers and over 5,000 viewers at live events
- Collaborated with peers to engage over 200 elementary school students via outreach programs

Snake Android Application
- Designed and developed an app using Java and XML, focusing on UI/UX design and compatibility
- Documented code thoroughly to enhance maintainability and support future development

Java Neural Network from Scratch
- Achieved 99.6% accuracy on recognizing handwritten digits from the MNIST dataset
- Utilized academic literature along with linear algebra, statistics, probability, and calculus to create a scalable neural network with no external libraries

Personal Website
- Developed a custom, interactive portfolio using CSS, HTML, and JavaScript, showcasing projects and skills with a user-friendly design

WORK EXPERIENCE / RESEARCH

Math Cancer Lab, Physicell Project
Undergraduate Researcher & Contributor   August 2024 – Present
- Contributing to an open-source cell modeling project through global collaboration with researchers
- Applying high-level math in Python and C++ to improve and optimize cell simulations

Indiana University Advising and Major Explorations Services
Peer Academic Coach, Data Team Member   August 2023 – Present
- Utilizing Tableau, Excel, and Python we analyzed how our services are utilized and identified key factors to encourage greater usage, driving a significant gain in appointments from the prior year
- Collaborating with advisors to assist students with scheduling, academic, and general college needs

LEADERSHIP

Fintech at Indiana University
Director of Technology   August 2024 – Present
- Simplifying complex computer science concepts to a broad audience of 265 members from various academic backgrounds and disciplines
- Interfacing with Discord and trading REST APIs to develop dynamic and interactive bots allowing members to view and engage with fund performance

Other Leadership: Secretary of Views IU (Hiking), Officer on HHCA Business and Sustainability Council

OTHER INTERESTS

Bass Guitar & Tuba, Hiking, Diving, Logic Puzzles, Risk, P vs NP, Pikmin, Heavy Weather, Blade Runner