Alexander Manos

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EDUCATION

University of Connecticut   Storrs, CT
Bachelor of Science in Computer Science & Engineering   *Grad: May 2026*
Minor in Mathematics   *GPA: 3.86 / 4.0*
- Awards: 2023 New England Scholar, 3x College of Engineering Dean's List
- Relevant Coursework: Data Structures, Discrete Systems, Systems Programming, Algorithms & Complexity, Cybersecurity Lab, Computer Architecture, Big Data Analytics, Principles of Databases

EXPERIENCE

Software Development Intern   May 2025 – August 2025
COCC
- Implemented automated testing workflows, reducing manual QA time by 100 hours per week and improving regression test coverage
- Performed UI testing across multiple product features to validate functionality, improve usability, and verify alignment with product expectations
- Optimized internal workflows by organizing and structuring data, improving accessibility and decision-making across teams

PROJECTS

Circlegame | *Full-Stack + Game Design*   March 2021 – Current
- Developed an interactive web-based game using the MERN stack (MongoDB, Express.js, React.js, Node.js)
- Engineered secure backend services, including user authentication, RESTful APIs, and session management using Node.js and Express.js
- Integrated MongoDB for storing user profiles and statistics, ensuring data persistence and efficient retrieval
- Set up CI/CD pipelines for automated integration, deployment, and scalability

Mandlebrot Set Visualization | *Java + Data Visualization*   March 2023 – May 2023
- Developed a Java program to visualize the Mandlebrot Set, a famous mathematical fractal
- Optimized rendering to handle high accuracy levels, displaying fractal details up to 10 decimal places

CERTIFICATIONS

AWS Certified Cloud Practitioner | *AWS Skill Builder*   Current
- Currently studying foundational services, security models, and cloud concepts of Amazon Web Services
- Gaining hands-on experience with core AWS services to enhance cloud infrastructure knowledge, incorporating newfound knowledge into current and existing projects

IBM Full Stack Software Development | *Coursera*   August 2024
- Completed 12 courses on the fundamentals of Cloud Computing and Full Stack Software Development
- Developed full stack applications using frameworks such as React, NodeJS, and Django
- Learned how to utilize essential developer tools such as Git, Docker, and Kubernetes
- Enhanced knowledge on programming languages such as HTML, CSS, JavaScript, Python, and SQL

LEADERSHIP & ACTIVITIES

UConn Ultimate Frisbee | *Captain*   September 2022 – Current
- Drive team performance through strategic leadership, training coordination, and game management; oversee national travel logistics, representing UConn at top collegiate tournaments

TECHNICAL SKILLS

Languages: Python, Java, C, SQL, HTML, CSS, JavaScript
Frameworks: React, Node.js, Express.js, Django, Flask, WordPress
Developer Tools: Git, GitHub, Docker, Kubernetes, MongoDB, AWS
Libraries: PyTorch, NumPy, Matplotlib, PDF-LIB.js, p5.js, Processing