

LUCAS GRAHAM

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EXPERIENCE

Software Engineering Intern

May 2025 - August 2025

IDEMIA National Security Solutions

Morgantown, WV

- Expanded microservice-based Docker applications using Spring Boot, REST APIs, and PostgreSQL, enabling 5+ new use cases for mission software.
- Co-designed and trained an AI-assisted code review system via MCP servers, reducing syntax/functional errors by 20% and saving 40+ hours of manual review per release.

Undergraduate Researcher

Jan 2023 - February 2025

WVU Office of Undergraduate Research

Morgantown, WV

- Published peer-reviewed research on Architecture Technical Debt (ATD) management and refactoring in the Springer CSCI 2024 conference proceedings (indexed in SpringerLink, available [here](#)).
- Presented technical findings at an international conference in Las Vegas to 150+ researchers and industry practitioners.

Software Engineering Intern

May 2024 - August 2024

IDEMIA National Security Solutions

Morgantown, WV

- Automated 30+ functional test scripts with Bash, Python, and SenseTalk, reducing manual QA effort by 75% and accelerating deployment timelines.
- Participated in agile ceremonies (daily stand-ups, sprint planning, demos) and contributed to peer code reviews within a SFA 6.0 Scrum team.

PROJECTS

MPX Freestanding Command-Line OS

- Built an OS kernel in C with process management, dynamic memory allocation, and interrupt-driven I/O, supporting multitasking across concurrent processes in a team of 3.

Weather Comparison Web Application

- Developed a full-stack app (React, Node.js, Azure SQL) integrating NOAA REST APIs to compare location-based weather patterns, used by 15+ test users for trip planning.

EDUCATION

West Virginia University

Expected May 2026

B.S. Computer Science (GPA: 3.97), B.S.B.A. Finance (GPA: 4.0)

TECHNICAL SKILLS

Languages	Java, Python, C, C#, HTML/CSS, Bash, JavaScript, SQL
Frameworks	Spring Boot, React, Node.js, Bootstrap, Maven, JUnit, Mockito
Tools	Git/GitHub/GitLab, Linux, Docker, Jenkins, Jira, Amazon Q, AWS (S3), VS Code
Concepts	Data Structures, Agile/Scrum, OOP, Testing Automation, Operating Systems

LEADERSHIP

Presidential Student Ambassador

January 2023 - Present

West Virginia University

- Represented 30,000+ students in meetings with university leadership, influencing campus policy and improvement initiatives.
- Delivered orientation speeches and mentored incoming students, enhancing engagement and first-year retention rates.