

Samuel Cordova

Software Engineer & QA Developer

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EXPERIENCE

QA/Test Developer Intern · IBM

May 2026 – Present

- Test and validate the IBM Db2 Analytics Accelerator (IDAA), the high-speed analytics engine that offloads complex Db2 for z/OS queries to purpose-built hardware
- Automate QA workflows, turning repetitive manual test procedures into repeatable, hands-off pipelines
- Design, execute, and document test cases to verify accelerator behavior and catch regressions before release

Graduate Assistant · Montclair State University

Aug 2025 – Present

- Teaching and tutoring Systems Programming & Operating Systems to undergraduate students
- Teaching Assistant for Computer Science Theory and Computer Networks
- Help students with lab assignments in Python, C, Bash, and assembly language
- Collaborate with faculty on grading, proctoring exams, and reviewing homework submissions

Pre-College Professor Assistant · Montclair State University

June – July 2025

- Taught Python, Machine Learning, and Electronics concepts to 12 high school students
- Guided hands-on AI projects using Raspberry Pi: Emotion Recognition, Dangerous Object Detection, and Sign Language to Text-to-Speech
- Mentored students through the full development lifecycle of embedded AI applications

IT Warehouse Support · Fabuwood

May – Aug 2023

- Supported inventory management applications and automated warehouse systems
- Installed, configured, and maintained barcode scanners, mobile devices, printers, and network equipment
- Troubleshoot hardware and software issues to minimize warehouse downtime

EDUCATION

M.S. Computer Science · Montclair State University

Aug 2025 – Present

Funded via teaching assistantship · Coursework: Computer Architecture, Algorithm Analysis, Research in Machine Learning, Generative AI

B.S. Computer Science · Montclair State University

Jan 2022 – May 2025

Coursework: Database Systems, Computer Security, Software Engineering, Android Development

SKILLS

Languages: Python, C, Java, SQL, Bash, Kotlin, HTML, CSS, JavaScript

Tools & Frameworks: MySQL, PostgreSQL, IBM Db2, React, Android Studio, Docker, GitHub, PyTorch, Slack

Testing & QA: Test Automation, Workflow Automation, Regression Testing, Penetration Testing, Burp Suite, Wireshark, tcpdump