

LUCAS JAMES STACKHOUSE

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EDUCATION

University of Colorado Boulder

B.S., Computer Science (Expected May 2026)

GPA: 3.3

Aug 2023 – Present

Bucks County Community College

General Education

Aug 2015 – May 2017

- **Relevant Coursework:** Data Structures, Algorithms, Computer Systems, Database Systems, Software Development, Principles of Programming Languages, Data Science, AI, HCI, Cybersecurity, Discrete Structures, Robotics, Calculus I & II, Physics I

TECHNICAL SKILLS

Languages: C/C++, Python, SQL, Scala, TypeScript, JavaScript

Web Technologies: React, Flask, Node.js, Vite, Axios, HTML/CSS

Developer Tools: VS Code, Git, Github Copilot, MySQL Workbench, DBeaver, JAMF Pro, JupyterLab, L^AT_EX, GDB

Database & Data: PostgreSQL, SQLAlchemy, Alembic, Pandas, Apache Parquet

Cloud & Infrastructure: Render, Docker, macOS LaunchAgent, Automated Backups

EXPERIENCE

Contract Software Engineer

Frontier Airlines

Aug 2025 – Present

- Designed & deployed full-stack web app automating multi-country tax forms & invoices, **slashing quarterly manual effort from 125+ hours to ~6 hours** and eliminating human error.
- Built **React** frontend, **Flask** backend, and **PostgreSQL** DB (hosted on **Render**); used **VS Code**, **DBeaver**, and **Git**.
- Integrated **Azure AD SSO**, **ReportLab** PDF generation, dynamic tax logic, and automated backups with email alerts.
- Single-handedly delivered production system in ~850 hours, **reducing invoicing time & cost >94%** via full automation.
- Enabled accounting team to reallocate **480+ hours annually** to strategic initiatives.

Senior Capstone Project – CrowdSolve Migration

University of Colorado Boulder / CrowdSolve

Aug 2025 – Present

- Member of 5-student agile team (2-week sprints) migrating client marketing site and no-code app into unified low-code hub (Circle.so) for entrepreneur onboarding, AI curriculum, startup showcase, and investor discovery.
- Manage client communication; design UX for wizard-style forms, progress dashboards, and searchable startup directory.
- Integrate AI “Mechanical Mentor” into curriculum assignments with real-time progress tracking; pilot testing in progress.

Tax Intern - Software Development

Frontier Airlines

Jun 2025 – Aug 2025

On-site

- Automated processes and applied data science to enhance indirect tax operations at Frontier Airlines.
- Tools utilized: Alteryx, Python, VS Code, Databricks, Microsoft Excel, Power BI

Apple Lab Administrator - Office of Information Technology

University of Colorado Boulder

Aug 2023 – Aug 2025

Boulder, CO

- Designed **JAMF Pro** workflows to automate software packaging & deployment across CU Boulder’s Apple ecosystem.
- Scripted **Bash/Python** automation for system admin tasks and performance analysis, boosting macOS efficiency campus-wide.
- Troubleshoot complex issues via data analysis; collaborated with IT teams to improve reliability and user experience.
- Earned **JAMF Certified Associate** credential in macOS management.