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ADAM CRUZ
COMPUTER SCIENCE STUDENT
WITH A DATA SCIENCE MINOR ★

Skills

- **Software Development:** Java Programming | C# Development | Object-Oriented Design | Software Engineering | System Design | API Development | Web Applications
- **Software Development Lifecycle:** Requirements Analysis | Design Documentation | Software Development | Testing & Quality Assurance | System Integration | Technical Documentation
- **Testing & Quality Assurance:** Test Planning | Test Procedures | Software Testing | Quality Assurance | System Validation | Performance Testing | Integration Testing
- **Programming Languages:** Java | C#, Python, JavaScript, TypeScript, C, HTML, CSS
- **Database & Data Management:** SQL | Database Systems | Data Analysis | Database Integration | Web Services
- **Development Tools:** Git | GitHub | VS Code | IntelliJ IDEA | Docker | Postman | Pytest
- **Aviation & Aerospace:** Aircraft Weight & Balance | Turbine Aircraft Operations | Flight Management Systems | Aviation Operations | Center of Gravity Calculations
- **Military & Security:** Security Systems | Access Control | System Integration | Security Protocols | Military Aircraft | Security Operations
- **Professional Skills:** Agile Methodologies | Team Collaboration | Customer Collaboration | Technical Communication | Problem Solving | Leadership | Project Management

Certifications

In Progress
- **AWS Cloud Practitioner**
  In Progress
- **CompTIA Security+**
  In Progress
- **CompTIA A+**
  In Progress

Healthcare & Safety
- **CPR/AED**
  American Red Cross - Feb 2024 - Feb 2026
- **Pharmacy Technician License**
  Indiana Board of Pharmacy - Jul 2021

Aviation
- **Commercial Pilot Certificate**
  FAA - May 2019
- **Instrument Rating**
  FAA - Nov 2018
- **Complex Aircraft Endorsement**
  FAA - Jul 2017
- **Private Pilot Certificate**
  FAA - Oct 2015

Fitness & Training
- **ACE CPT Certification**
  Aug 2016
- **USAW Level 1**
  Aug 2015
- **CrossFit Level 1**
  Dec 2015

Languages

- **English** - Native
- **Spanish** - Native

Professional Summary

Computer Science student with specialized experience in software development, system testing, and quality assurance, combined with extensive aviation background from Purdue University's Professional Flight program. Proven track record in full software development lifecycle including requirements analysis, design documentation, development, and comprehensive testing. Experienced in Java programming, database systems, and web application development with strong foundation in object-oriented design and software engineering principles. Demonstrated ability to handle complex system integration, API integration, and technical documentation for enterprise solutions. Unique combination of aviation operations knowledge including aircraft weight and balance calculations, turbine aircraft operations, and flight management systems, with software engineering expertise. Seeking opportunities in Software Engineering roles where I can leverage my technical skills and aviation domain knowledge to contribute to aerospace software solutions, particularly in weight and balance systems and flight operations software.

This resume was personally crafted using an HTML/CSS formatting framework to ensure a modern and professional presentation.

Education

Bachelor of Science in Computer Science, Minor in Data Science
Westminster University, Salt Lake City, UT | Aug 2023 - May 2026 (Expected Graduation Date)
Academic Excellence: 3.6 GPA | Dean's List

- Relevant Coursework: Functional Programming, Database Systems, Software Engineering, Data Structures & Algorithms, Computer Systems & Programming, Operating Systems, Artificial Intelligence, Statistical Modeling, Statistical Analysis
- Computer Science & Data Science Tutor
- Supplemental Instructor for CMPT 215 (Introduction to Computer Science)

Bachelor of Science in Aviation Management
Purdue University, West Lafayette, IN | Aug 2015 - May 2020

- Relevant Coursework: Aerospace Vehicle Systems Design, Analysis And Operations, Turbine Flight Operations Lecture, Large Aircraft Systems, Aerospace Vehicle Propulsion And Tracking Systems, Advanced Transport Flight Operations, Turbine Aircraft Simulation Lab, Transport Aircraft Simulation Laboratory, Aviation Operations Management, Human Factors For Flight Crews, Aviation Command Leadership, Private Pilot Lecture, Private Pilot Flight, Commercial Pilot Lecture, Commercial Pilot Flight, Instrument Pilot Lecture, Instrument Pilot Flight

Technical Experience

IT Intern
EnableCV - Midvale, UT | 2024 - Present

- Designing and implementing software solutions with full software development lifecycle involvement including requirements analysis | design documentation | software development, and comprehensive testing
- Developing web applications using JavaScript, HTML5, and CSS3 with object-oriented design principles and responsive design for cross-platform compatibility
- Creating comprehensive test plans and test procedures for software applications, implementing quality assurance methodologies and system validation processes
- Managing API development and system integration between multiple services, ensuring database integration and web services functionality
- Implementing security protocols and access control systems, maintaining system reliability and data integrity for enterprise solutions
- Conducting performance testing and integration testing to ensure software quality and system reliability
- Creating comprehensive technical documentation including API specifications, integration maps, and user training materials
- Collaborating with customers and stakeholders to gather software requirements and ensure customer satisfaction with delivered solutions
- Utilizing agile methodologies and team collaboration to coordinate integrated testing activities with software engineers and management
- Developing database systems and SQL queries for complex business logic, implementing data analysis and reporting solutions

Computer Science & Data Science Tutor
Westminster University - Salt Lake City, UT | 2023 - Present

- Provide technical support and troubleshooting for hardware and software issues
- Assist students with data analysis projects using Python, R, and statistical modeling techniques
- Guide students in creating data visualizations and interactive dashboards for academic projects
- Support database design and SQL query optimization for student projects
- Implement security protocols and maintain system integrity

Supplemental Instructor
Westminster University - Salt Lake City, UT | 2023 - Present

- Lead technical workshops on data visualization and analytics tools including Python libraries and statistical software
- Develop and maintain documentation for technical procedures and best practices
- Implement and troubleshoot various software platforms and tools
- Monitor system performance and resolve technical issues
- Provide training on data analysis techniques and statistical modeling for students and faculty

Inpatient Hospital Pharmacy Technician
Indiana University Health - Indianapolis, IN | 2022 - 2023

- Managed and maintained complex healthcare information systems
- Implemented system improvements and security protocols
- Provided technical support and training for system users
- Documented procedures and maintained accurate system records
- Collaborated with IT teams to ensure system reliability and security

Military Experience

Tactical Response Force Flight Chief
United States Air Force | 2012 - 2015

- Led and coordinated complex security operations, demonstrating strong leadership and decision-making abilities
- Managed critical information systems and security protocols, ensuring data integrity and system reliability
- Developed and implemented standard operating procedures for security operations and emergency response
- Conducted regular system audits and security assessments to maintain operational readiness
- Trained and mentored team members in security protocols and technical procedures
- Translated complex security protocols and technical procedures into clear, actionable instructions for diverse team members
- Demonstrated exceptional attention to detail in security assessments, documentation, and compliance reporting

Flight Security Controller
United States Air Force | 2011 - 2012

- Monitored and maintained security systems and access control databases
- Coordinated with multiple departments to ensure system integration and data accuracy
- Implemented security protocols and maintained detailed documentation of procedures
- Conducted regular system maintenance and troubleshooting of security equipment
- Managed access control systems and user permissions

Projects

- **Software Development & Testing Platform:** Comprehensive software development project demonstrating full software development lifecycle including requirements analysis | design documentation | software development, and comprehensive testing. Developed web applications using JavaScript, HTML5, and CSS3 with object-oriented design principles. Implemented test plans and test procedures for software applications, ensuring quality assurance and system validation. Created comprehensive technical documentation and user training materials. Built with modern web technologies and database systems.
  VIEW PROJECT PORTFOLIO

- **Database Integration & Web Services Platform:** Enterprise solution demonstrating database integration and web services development. Implemented API development and system integration between multiple services. Developed SQL queries for complex business logic and data analysis. Created automated reports and interactive dashboards with performance testing and integration testing. Built with database systems, web services, and advanced data modeling techniques.
  VIEW PROJECT PORTFOLIO

- **Mathsprout:** Interactive web application for tracking student progress. Demonstrated strong technical problem-solving skills through system design and implementation. Created comprehensive technical documentation and user guides. Implemented secure user authentication and data management systems. Built with modern web technologies including HTML5, CSS3, and JavaScript.

- **Weather App:** Full stack web application providing real-time weather data. Showcased ability to work with complex systems and API development. Implemented robust error handling and system monitoring. Created detailed technical documentation and user guides. Developed with focus on system reliability and performance optimization.

Additional Information

Military Achievements
- USAF Commendation Medal, Good Conduct Medal, Humanitarian Medal
- NCO Academy Graduate, Airman Leadership School Graduate
- Global Strike Command Assaulter School Graduate, Global Strike Command Winter Warrior Graduate
- Global Strike Command Nuclear Integration Course for Leaders Graduate

Athletic Achievements
- USAW University Nationals Competitor (2017-2019)
- USAW American Open Series Competitor (2021-2023)

References

Academic Advisors

Kathryn Lenth, Ph.D
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Direct Supervisors

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Professional References

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