

# Amina Cook

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## SUMMARY

Driven computer science student eager to contribute to advanced AI software projects at Tech Innovations Inc. Equipped with hands-on experience gained through academic machine learning assignments and a solid foundation in programming languages like Python and C++. Actively engaged in optimizing performance for AI frameworks, including TensorFlow and PyTorch, demonstrating both technical prowess and a collaborative spirit. Committed to leveraging theoretical knowledge in practical applications, intending to support research efforts while growing professionally within this dynamic field.

## EDUCATION

**Bachelor of Science in Computer Science** 2026  
University of Arizona GPA: 3.8 Tucson, AZ  
*Coursework: Data Structures, Machine Learning, Algebra, Software Engineering*

## TECHNICAL SKILLS

- **Programming Languages:** Python, C++
- **AI Frameworks:** TensorFlow, PyTorch, ONNX Runtime, OpenVINO
- **Machine Learning Techniques:** Regression, Classification, Clustering
- **Tools & Technologies:** Jupyter, Git, VS Code
- **Data Processing:** Pandas, NumPy, SciPy
- **Web Development:** HTML, CSS, JavaScript
- **Communication Tools:** Slack, Zoom, Microsoft Teams
- **Version Control Systems:** Git, Bitbucket, GitHub
- **Cloud Platforms:** AWS, Azure
- **Database Management:** MySQL, MongoDB

## SKILLS

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|--------------|--------------------|------------------------|------------------------|
| • Python     | • ONNX Runtime     | • Team Collaboration   | • Model Optimization   |
| • C++        | • OpenVINO         | • Deep Learning        | • Research Methodology |
| • TensorFlow | • Machine Learning | • Algorithm Design     | • Coding Standards     |
| • PyTorch    | • Data Analysis    | • Statistical Analysis | • Version Control      |

## EXPERIENCE

**AI Software Development Intern** January 2026 - Present  
University Project Tucson, AZ

As an AI Software Development Intern, actively involved in the design and development of cutting-edge applications focusing on computer vision and AI optimizations across various platforms. Responsibilities included model tuning, theory application in coding, and collaborating closely with peers to realize project goals.

- Contributed to the development of a computer vision application that identifies objects in images, utilizing TensorFlow and OpenVINO.
- Assisted in tuning machine learning models for improved accuracy, achieving a 15% increase in performance through iterative testing and validation.
- Collaborated with a team of peers in the creation of documentation and presentations for project findings, enhancing communication skills.
- Engaged in hands-on research to integrate hardware-software solutions, focusing on optimizing algorithms for real-time processing.
- Participated in weekly meetings to brainstorm solutions and troubleshoot challenges, fostering a collaborative team environment.
- Presented project outcomes at a university-sponsored tech showcase, receiving positive feedback from faculty and industry professionals.

**Machine Learning Research Assistant** August 2025 - December 2025  
University Project Tucson, AZ

In the role of Machine Learning Research Assistant, contributed to innovative research projects centered on predictive modeling for vast datasets. Engaged in methodical experimentation and data analysis, yielding actionable insights and furthering academic achievements.

- Supported a research project aimed at developing predictive models for analyzing large datasets, leveraging Python and Pandas for data manipulation.
- Conducted experiments using PyTorch for deep learning model training, contributing to the overall research objectives.
- Assisted in the analysis of results to assess model performance, documenting findings for future reference.
- Collaborated with faculty to refine research questions and methodologies, enhancing research outcomes.
- Engaged in peer review processes, providing constructive feedback to improve project quality.
- Contributed to writing academic papers for publication in relevant journals, gaining insights into academic publishing.

**LEADERSHIP & AWARDS**

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- Dean's List, University of Arizona (2025)
- Best Project Award, University Hackathon (2026)

**CERTIFICATIONS**

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- Introduction to Machine Learning 📅 2026
- Python for Everybody 📅 2026

**PROFESSIONAL AFFILIATIONS**

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- Member, AI Club, University of Arizona (2025 – Present)
- Volunteer, Local STEM Outreach Program (2025)

**LANGUAGES**

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- English (Native)
- Spanish (Intermediate)

**ADDITIONAL INFORMATION**

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**Work Status** : Authorized to work in United States. No sponsorship required.

**REFERENCES**

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AVAILABLE ON REQUEST