

# Bolden J. Jones

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## EDUCATION

**University of Illinois at Urbana-Champaign**

Expected May 2026

*Bachelor of Science in Computer Science, Minor in Statistics*

GPA: 3.25

**Relevant Coursework:** Data Structures, Numerical Methods, Systems Programming, Computer Architecture, Applied ML

**Awards/Honors:** Isaac Hall Scholarship

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## TECHNICAL SKILLS

- **Programming Languages:** Python, Java, JavaScript, C/C++, HTML, CSS, MIPS Assembly, Verilog
  - **Libraries:** Pandas, NumPy, Matplotlib, MediaPipe
  - **Frameworks / Tools:** Django, Git, Flask, React, Perfetto, MCP
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## WORK EXPERIENCE

**Microsoft**

Redmond, WA

*Software Engineering Intern*

May 2025 - Aug 2025

- Implemented Perfetto background tracing into an internal Edge testing pipeline, enabling engineers to capture performance data during automated runs
- Designed and integrated a simple UI with preset configurations for engineers to easily create Perfetto tracing test runs
- Developed an MCP server to analyze Perfetto traces, assisting engineers in identifying reasons for metric regressions

**Microsoft**

Redmond, WA

*Explore Intern (Software Engineering & Product Management)*

May 2024 - Aug 2024

- Built and delivered a product as part of a three-person intern team in Microsoft Edge Consumer
  - Created a product management specification by outlining the timeline, engineering/success metrics, and costs
  - Enhanced the performance sidebar in Microsoft Edge by reducing RAM and disc usage, resulting in a **90%** increase in efficiency among **4-8 GB** Edge Canary users
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## PROJECTS

**AI Vision Adaptive Face Masking** (React.js, Python, AWS, MediaPipe)

- Led development of a real-time face tracking system using MediaPipe FaceLandmarker and custom blendshapes for adaptive 3D mask overlays.
- Built a lightweight 2D-to-3D conversion pipeline to generate animated avatars without requiring high-end hardware
- Built dynamic 3D avatar rendering with Three.js, aligning models to facial landmarks and expressions in real time

**AgriVision** (React.js, Flask, Python)

- Built a real-time soil data app to manage water risks with a four-member team at NASA Space Apps Chicago.
  - Developed a React frontend to visualize soil parameters and improve irrigation and crop management.
  - Built a Flask backend to process real-time data and support interactive decision-making for farmers
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## LEADERSHIP & PROFESSIONAL DEVELOPMENT

**B[U]ILT(Blacks, Indigenous, and Latino in Tech)**

Urbana-Champaign, IL

*Infrastructure Director*

April 2024 - April 2025

- Lead and contribute to projects for the infrastructure committee (Club website, AI Vision)
- Act as an engineering manager to make sure all committee members are on track
- Provide experiences similar to software engineering and product management for club members
- Create resources and products for our organization

*Vice President*

April 2025 - present

- Leading initiatives to expand technical projects, professional development, and community engagement
- Overseeing operations across committees to support member growth and organizational goals
- Representing the organization in collaborations, events, and strategic planning efforts