

Karl Butler, Jr.

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PROFILE

Computer Engineering senior seeking internship for summer 2024 or full-time position to start post-graduation. Interested in AI/ML, IoT, and sensor processing. Proficient programmer in Python, C, and C++. Knowledgeable of algorithms, data structures, and fundamental DSP concepts.

EDUCATION

Mississippi State University

December 2024

Bachelor of Science in Computer Engineering | Starkville, MS

- Minor: Mathematics

CAREER EXPERIENCE

Indigenous Students & Allies Association

February 2022 - Present

Event Coordinator | Starkville, MS

Organize meetings and events and facilitate organization growth. Schedule meeting dates and locations and submit event forms.

- Presented a plan for events and fundraisers to Holmes Cultural Diversity Center and University administrators.
- Calculated semester expenses and aided in creating a budget for the organization.

Mississippi Band of Choctaw Indians - Youth Opportunity Program

June 2023 - July 2023

Monitor | Choctaw, MS

Provided high school students with opportunities to work, build connections, gain skills, and learn more about the Choctaw culture. Logged working hours, delivered payroll checks, and supervised summer employees.

- Conducted mock interviews and helped teen workers make a résumé
- Taught teens about budgeting and salaries through a financial literacy workshop.

Mississippi State University - Electrical & Computer Engineering

December 2022 - May 2023

Undergraduate Research Assistant | Starkville, MS

Used Open AI Cellular Git repository to deploy client-server based virtual radio networks in Linux environment. Researched O-RAN architecture and debugged performance monitoring xApp on 5G ZMQ network.

- Resolved problem preventing KPI Monitoring xApp from proper deployment.

Mississippi Band of Choctaw Indians - Information Technology

July 2022 - August 2022

IT Intern | Choctaw, MS

Provided computer maintenance and network support for Tribal employees in various departments. Shadowed Tribal IT staff and learned about networking and cybersecurity.

- Diagnosed damaged fiber cable and implemented fix alongside IT professionals and engineers.

SKILLS

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| • Object-Oriented Programming (C/C++) | • Web Development (HTML, CSS) |
| • Python Programming (NumPy, Pandas, OpenCV) | • Project Management (SCRUM, Trello, Slack) |
| • Embedded Software Development | • TinkerCAD |
| • Debugging | • Soldering |
| • MATLAB & Simulink | • Technical Writing |