

# Mustaeen Ahmed

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## EDUCATION

<b>University of Central Florida</b> <i>Bachelor of Science in Computer Science</i>	Orlando, FL Aug 2023 - May 2027
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## EXPERIENCE

<b>Software Engineer Intern</b> <i>Handshake</i>	Nov 2025 - Present <i>San Francisco, CA</i>
• Optimized multimodal pipelines with <b>LangChain</b> and <b>Python</b> , improving downstream task accuracy by <b>19%</b> . • Applied <b>diffusion models</b> for <b>synthetic data</b> generation, improving efficiency by scaling dataset size by <b>300%</b> .	
<b>Quantitative Software Engineer Intern</b> <i>Morgan Stanley</i>	Jun 2025 - Aug 2025 <i>New York, NY</i>
• Migrated a <b>C++</b> quantitative trading app to the web, reducing loading speeds by <b>50%</b> , and integrated <b>Grafana</b> . • Developed <b>Python</b> pipelines for risk management, integrating market data and improving report quality by <b>45%</b> . • Implemented an interpreter for <b>Intex Deal Modeling Language</b> , improving deal processing speeds by <b>200%</b> .	
<b>Software Engineer Intern</b> <i>U.S. Department of Transportation</i>	Jan 2025 - Mar 2025 <i>Washington, D.C.</i>
• Built and deployed a scalable web application with <b>AWS CDK</b> , <b>Lambda</b> , and <b>S3</b> for real-time data processing. • Leveraged <b>RESTful APIs</b> with <b>Amazon API Gateway</b> and <b>DynamoDB</b> , reducing backend latency by <b>54%</b> . • Developed a vessel tracking interface, improving port scheduling operations by <b>28%</b> and port throughput by <b>44%</b> .	
<b>Software Engineer Intern</b> <i>Leidos</i>	Sept 2024 - Dec 2024 <i>Orlando, FL</i>
• Engineered multimodal pipelines with <b>Transformers</b> , improving visual-language performance in <b>LLMs</b> by <b>22%</b> . • Fine-tuned <b>vision-language</b> and <b>machine learning</b> models for <b>pre-training</b> , increasing efficiency by <b>37%</b> . • Constructed <b>data scraping</b> tools with <b>Python</b> , automating data collection and increasing productivity by <b>20%</b> .	
<b>Software Engineer Intern</b> <i>Darden</i>	Jun 2024 - Aug 2024 <i>Orlando, FL</i>
• Engineered several <b>Python</b> applications for automation, saving <b>400+</b> work hours and <b>\$10,000+</b> per quarter. • Leveraged <b>OpenCV</b> , <b>scikit-image</b> , and <b>PyTesseract</b> for robust <b>error handling</b> , reducing error rates by <b>94%</b> . • Performed efficient <b>data engineering</b> , decreasing code complexity by <b>63%</b> and application runtime by <b>26%</b> .	

## PROJECTS

<b>Knight Hacks Monorepository</b>   <i>Next.js, React, TypeScript, SQLite, Tailwind CSS, tRPC, Drizzle ORM</i>	
• Architected a website for club registration with <b>React</b> , serving <b>2000+</b> students and <b>20+</b> company sponsors. • Facilitated development of new tooling architecture, increasing <b>DX</b> by <b>80%</b> , and developer efficiency by <b>90%</b> . • Implemented a multi-purpose chat bot with <b>25+</b> useful commands to serve a club chat of <b>5000+</b> members.	
<b>AgentNow</b>   <i>Next.js, React, TypeScript, Google Cloud, Python, FastAPI, Eleven Labs, RAG, Machine Learning</i>	
• Placed <b>2nd</b> out of <b>20+</b> competitors for ServiceNow's Agentic AI challenge at Knight Hacks 2025. • Deployed a <b>retrieval-augmented generation</b> API with <b>Google Cloud</b> , reducing enterprise costs by <b>80%</b> . • Built a tool to assist enterprise clients with product selection, consultants with sales, and sales analytics.	
<b>GuitAR</b>   <i>C#, Unity, Meta SDK, Algorithms, Audio Classification</i>	
• <b>2nd place winner</b> of the <b>Best Overall</b> category at Knight Hacks 2024, surpassing <b>102</b> submitted projects. • Architected an educational mixed reality application for learning and practicing the guitar, with <b>15+</b> lessons. • Designed an <b>audio classification</b> algorithm which converts audio frequencies to binary data for note validation.	

## TECHNICAL SKILLS

**Languages:** Python, JavaScript, TypeScript, R, C, C++, C#, Java, Go, HTML, CSS, GLSL, SQL

**Frameworks:** React, Angular, Spring Boot, Next.js, Node.js, Express.js, Tailwind CSS, tRPC

**Libraries:** scikit-learn, PyTorch, TensorFlow, NumPy, Pandas, Flask, Django, OpenCV

**Tools:** Git, Amazon Web Services, Microsoft Azure, Google Cloud Platform, Redis, Docker, MongoDB, Jupyter Notebook, Linux