Harold Mciver

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EDUCATION

University of South Florida — Tampa, FL
Bachelor of Science in Computer Science, GPA: 3.9 — *Expected Dec 2025*

EXPERIENCE

Software Engineer Intern — May 2025 - Aug 2025
Google — Gemini CLI & Gemini Code Assist — *New York, NY*
- Integrated Model Context Protocol (MCP) prompts into Gemini CLI, generating 50+ slash commands with argument validation and collision handling for seamless prompt/tool discoverability.
- Co-designed and migrated all legacy commands to a modular slash-command framework, enabling custom command creation and centralizing parsing/validation logic for slash commands.
- Re-engineered the LLM evaluation pipeline to benchmark different Gemini models on accuracy & latency, delivering data-driven recommendations that boosted task accuracy by 15 %.

Software Engineer Intern — June 2024 - August 2024
Capital One - Internal Tools — *McLean, VA*
- Developed backend APIs in Python to access SQL data and integrate information from external applications, reducing testing times by 60%.
- Built a user-focused UI in React, streamlining software testing processes and improving metric visibility.
- Deployed applications to AWS, optimizing non-production environments to support faster testing cycles and quality assurance.

AI/ML Research Assistant — August 2023 – June 2024
Advancing Machine and Human Reasoning Lab — *Tampa, FL*
- Engaging in Natural Language Processing and Cognitive Modeling research, utilizing Qualtrics surveys using JavaScript and conducting data analysis using Pandas and NumPy, revealing pivotal patterns
- Conducting extensive testing on various Large Language Models, employing TensorFlow and PyTorch for experimentation and analysis, resulting in a 30% enhancement in model accuracy and efficiency, including implementations with HuggingFace models for benchmarking and comparison

Software Engineer Intern — June 2023 – August 2023
PwC — *Tampa, FL*
- Developed a full-stack budget calculation application using Django for both frontend and backend, integrating machine learning models to enhance financial forecasting and calculation accuracy.
- Built data pipelines for real-time financial data processing, enabling dynamic updates in forecasting models.

PROJECTS

Lawgle | *React, Javascript, Python, Firebase, HTML/CSS* — Project Link
- Developed a full-stack application using React for the frontend and Python for the backend, enabling users to generate customized, legally formatted trust documents from intuitive form inputs.
- Fine-tuned large language models to interpret and refine user-provided data, translating responses into precise legal language for trust documentation, achieving professional accuracy.
- Configured a Firebase backend to securely store and manage users' previous documents.

SpeakGeek – Google Hackathon | *React, Javascript, Python, Firebase, OpenAI Whisper* — Project Link
- Built a cloud-based, full-stack mock interview platform using React.js and Firebase, containerized with Docker and deployed on Netlify, providing real-time feedback and grading to 5,000+ students.
- Engineered advanced features including WebRTC for live video streaming, BERT for intelligent question generation, and OpenAI's Whisper for accurate speech-to-text transcription.
- Integrated OpenAI's GPT models and Chart.js to deliver interactive, visual, and constructive feedback on behavioral interview responses.

TECHNICAL SKILLS

Languages: Python, C/C++, Java, Go, JavaScript, HTML/CSS
Frameworks: React, Next.js, Flask, FastAPI, Django, Node.js/Express, PyTorch
Developer Tools: AWS, Google Cloud Platform, Git/GitHub, VSCode, Postman, Jira