

# CELINE JOHN PHILIP

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## **SUMMARY**

AI Engineer with hands-on experience delivering production GenAI and LLM-based solutions in real-world environments. Proven ability to own end-to-end AI workflows, translate customer requirements into scalable systems, and deploy LLM-powered applications using modern cloud and data infrastructure. Strong engineering foundation with experience collaborating across technical and non-technical stakeholders.

## **EDUCATION**

<b>University of California, Davis</b>	<b>(Expected Graduation: 2026)</b>
Master of Science in Computer Science (CGPA: 3.75/4)	
<b>St. Francis Institute of Technology, University of Mumbai</b>	<b>(2020-2024)</b>
Bachelor of Engineering in Computer Engineering with Honors in Cybersecurity (CGPA: 8.71/10)	

## **PROFESSIONAL EXPERIENCE**

<b>Artificial Intelligence Intern - Civic   New York, USA</b>	<b>(June–August 2025)</b>
• Owned end-to-end deployment of a production-ready RAG-based GenAI system, collaborating directly with stakeholders to translate requirements into scalable LLM workflows.	
• Built and deployed LLM-powered retrieval pipelines using LangGraph, OpenAI, Pinecone, AWS OpenSearch, improving response latency by 30% and retrieval accuracy by 25%.	
• Designed interactive GenAI interfaces with Next.js, NestJS, TypeScript, CopilotKit, enabling real-time execution of 13+ structured agent actions.	
• Iterated rapidly based on user feedback, refining prompts, retrieval strategies, and deployment configurations for production reliability.	
<b>Software Development Intern - BusinessNext   Mumbai, India</b>	<b>(July–August 2024)</b>
• Implemented data processing workflows and automation pipelines using Oracle SQL, JSON, XML, supporting enterprise-scale CRM systems.	
• Collaborated with cross-functional teams to deliver data-driven insights for financial clients within a production SDLC.	
<b>Web Development Intern - Pratham Enterprises   Mumbai, India</b>	<b>(January–May 2024)</b>
• Delivered a responsive production website using HTML, CSS, JavaScript, improving traffic by 20% through SEO optimization.	

## **RESEARCH EXPERIENCE**

<b>Speech Neuroengineering and Cybernetics Lab, UC Davis   Davis, USA</b>	<b>(April 2025 – Present)</b>
<i>Project Name: Wrist EMG Decoding for Robust, Adaptive Human-Computer Interaction</i>	
• Building adaptive ML classifiers for an HCI project in collaboration with Meta's Ethical Neurotechnology program.	
• Analyzed dataset of 91 participants (32,000+ trials, 10 gestures) to develop robust decoding models.	

## **PROJECTS**

<b>AI-Powered Microcontroller API Assistant with Fine-Tuned LLMs</b>	<b>(July-September 2025)</b>
• Fine-tuned LLMs to generate SDK-compliant embedded code (UART, SPI, GPIO, I2C).	
• Built production FastAPI backend with vLLM optimizations, reducing inference latency by 60%.	
• Delivered a full-stack solution using React & TypeScript, focused on real developer workflows.	
<b>BurnBright – AI Wellness Dashboard for Burnout Prediction (HackDavis 2025)</b>	<b>(April 2025)</b>
• Designed AI dashboard predicting student burnout using Canvas workload data, Next.js, TypeScript, Flask, Cerebras-hosted LLaMA-4 Scout LLM, MongoDB Atlas.	
• Delivered structured wellness guidance via prompt-engineered LLM reasoning; presented at HackDavis 2025 (MLH, UC Davis).	
<b>Adversarial Attack Detection and Defense in Neural Networks</b>	<b>(September -December 2024)</b>
• Evaluated CNN robustness (Simple, Moderate, ResNet-18, VGG-inspired) against adversarial attacks.	
• Implemented adversarial training and gradient masking, improving model reliability in healthcare and autonomous systems.	

## **SKILLS**

- Programming Languages:** Python, Java, C++, JavaScript, TypeScript, R
- Frameworks & Development:** React, Next.js, Node.js, Django, Flutter, FastAPI, HTML, CSS, Arduino
- Data, Databases & ML:** SQL, MySQL, Oracle SQL, MongoDB, Pandas, Spark, NumPy, Pinecone
- Cloud, DevOps & Tools:** AWS, Docker, Git, GitHub, Wireshark, LaTeX, OpenAI, Triton, Gradle

## **COMPLETED CERTIFICATION**

- Oracle Cloud Infrastructure 2025 Certified Generative AI Professional (November 2025)
- Oracle Cloud Infrastructure 2025 Certified AI Foundations Associate (October 2025)
- McKinsey.org Forward Program (Professional Skills Certificate) (August 2025)

## **TEACHING EXPERIENCE**

<b>Teaching Assistant, PHI 13G - Minds, Brains, and Computers, UC Davis   Davis, USA</b>	<b>(September - December 2025)</b>
• Leading discussion sections and grading coursework on AI, cognition, and computational models of intelligence.	
<b>Teaching Assistant, ECS 170 - Introduction to Artificial Intelligence, UC Davis   Davis, USA</b>	<b>(September - December 2024)</b>
• Conducted discussion sections and graded coursework on machine learning, search, and reasoning algorithms.	