Colin T. Le

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Education

University of Central Florida   Orlando, FL
*Bachelor of Science in **Computer Science** and **Statistics** with **Honors***   *May 2025*
GPA: 3.95

Experience

J.P. Morgan Chase & Co.   Tampa, FL
Software Engineer Intern   *June 2023 – August 2023*
- Designed and developed a user-friendly web application for merchant services, streamlining payment processing and enhancing the user experience for commercial clients, utilizing J.P. Morgan Chase & Co. UI Toolkit and React.js
- Deployed services on public and private cloud infrastructure, leveraging AWS, and implementing standard CI/CD pipelines for efficient software delivery
- Incorporated modern APIs and cloud-native environments into our application to seamlessly integrate and provide support for over 28 million merchants worldwide

University of Central Florida   Orlando, FL
Software Engineer Intern   *February 2023 – Present*
- Part of the TechRangers Team at the Center for Distributed Learning Center in UCF
- Collaborated with various Software Engineers to develop embedded internal & external tools utilizing Python's frameworks Flask and Django, JavaScript's framework React.js, Docker, and SQL in Canvas' environment
- Provided course development and web application development for over 60,000 students and faculty members through HTML, CSS, and JavaScript

Lockheed Martin   Orlando, FL
System Engineer Intern   *August 2022 – January 2023*
- Part of IRST (Infrared Search and Track) Algorithm Team at Lockheed Martin MFC (Missiles and Fire Control) in Orlando, Florida
- Achieved over 20% database space reduction and enabled data tracking for all users and programs through an advanced MATLAB-based GUI, while also developing a flight replays generator in C++ utilizing IRST variations (F16, F18, Legion Pod, etc.)
- Engineered and implemented MATLAB algorithms for image processing, resulting in enhanced image quality and accuracy for various applications, such as object recognition and image enhancement

Wearable Engineering and Assistive Robotics   Orlando, FL
Lab Researcher   *September 2021 – Present*
- Explored available technologies that enhance and empower human capabilities, aiming to create assistive robots for practical use in various fields
- Developed a wearable assistive device to facilitate balance recovery at the onset of a fall using pre-impact fall detection and closed loop FES control (*FallFES*) using libraries such as NumPy, pandas, Matplotlib, and more
- Programmed an Autonomous Shopping Cart that can guide customers at Supermarket and provide them an AI driven Shopping Experience and make their shopping more effective, efficient and enjoyable (I^3ARC) in ROS environment with Python

Projects (click here to view demos and more projects)

ProfiLeAI: an expert AI Chatbot powered by LangChain, OpenAI, and Pinecone offers comprehensive insights into Colin Le's professional journey.   May 2023

Adventure Roulette *(SwampHacks)***:** a dynamic MERN web app leveraging Google Maps Platform, RTK Query, and cache storage, enabling users to input their location and discover nearby uncharted destinations.   January 2023

Pathway Tool *(Code for Good Hackathon)*: an all-inclusive MERN web app for Tarrant To & Through Partnership (T3), offering personalized education resources, surveys, school/scholarship insights, and an interactive chatbot to support students and families in their pursuit of higher education. **Won 1st Place.**   November 2022

Skills

- C, C++, CSS, Django, Express.js, Flask, Git, HTML, Java, JavaScript, LangChain, MATLAB, MongoDB, Next.js, Node.js, Pinecone, PostgreSQL, Python, React.js, Redux, ROS, RTK Query, Spring, Tailwind CSS, TypeScript
- Agile, AWS, Azure, Bitbucket, Confluence, Docker, Figma, Git, GitHub, Heroku, IntelliJ, Jira, Linux, ngrok, Postman, VSCode