Colin T. Le

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Education

University of Central Florida — Orlando, FL

*Bachelor of Science in **Computer Science**, Bachelor of Science in **Statistics*** — *May 2025*

- Relevant Coursework: Data Structures & Algorithms, OOP in Java, Computer Logic and Org. — GPA: 3.95
- Certificates: AWS Certified Cloud Practitioner

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

Undergraduate 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

- **Languages**: Python, Java, C, C++, SQL (Postgres, SQLite), JavaScript, HTML/CSS, Swift, Node, TypeScript
- **Frameworks**: React, Django, Flask, Spring, Express, Next, Tailwind CSS,
- **Developer Tools**: Git, Github, VS Code, XCode, Postman, Figma, Eclipse, Docker, AWS, MongoDB, Redux, Bitbucket, Heroku, Jira