

# Richard Wright

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## EDUCATION

### University of Central Florida

Orlando, FL

B.S. Computer Science, Minor in Mathematics (Major GPA: 4.0)

Expected Graduation: December 2025

**Relevant Coursework:** Data Structures/Algorithms, Object-Oriented Programming, Computer Security, Discrete Mathematics, Computer Architecture, Machine Learning, Database Systems

**Academic Achievements:** Florida Bright Futures Scholar, Cambridge Diploma, Dean's List

**Organizations:** UCF KnightHacks, ColorStack, NSBE (National Society of Black Engineers), CodePath

## TECHNICAL SKILLS

**Languages:** JavaScript, TypeScript, Python, Java, C/C++, SQL, HTML/CSS

**Libraries/Frameworks:** React, Express, Node, Mongoose, TailWind, Selenium, AWS CDK, Bootstrap, Discord.py, NumPy, Pandas

**Tools:** Git, GitHub, MongoDB, PostgreSQL, AWS (Amazon Web Services), Docker, Microsoft Azure, IntelliJ, VSCode, Jira, Postman, Unix, Windows WSL, Twilio, Bamboo

**Concepts:** REST APIs, Cloud Computing, Relational Databases, Software Engineering, CI/CD, Backend, Frontend, Machine Learning, Scrum, Agile Methodologies

## EXPERIENCE

### Software Engineer Intern

August 2024 – Present

*Cole Engineering*

Orlando, FL

- Addressed performance-related code quality issues, leading to **11% reduction** in runtime and an increase in application efficiency across multiple Java applications.
- Updated and improved technical documentation related to **SonarQube** usage and best practices, increasing team adherence to quality standards.

### Software Engineer Intern

May 2024 – August 2024

*Liberty Mutual*

Seattle, WA

- Developed and deployed scalable infrastructure as code using **AWS CDK (Cloud Development Kit)** with **TypeScript**.
- Implemented a customer-agent routing system using **AWS Lambda** and **DynamoDB**, to accurately match customer queries with specialized agents.
- Reduced call routing costs **by 31%** by migrating legacy callflow system to modern AWS architecture.
- Achieved a **24% reduction** in customer agent costs by optimizing Twilio configurations and workflows.
- Pioneered the transformation of legacy codebases by modifying various **REST API** endpoints.

### University of Central Florida

August 2022 – April 2024

*Undergraduate Teaching Assistant*

Orlando, FL

- Facilitated one-on-one and group sessions to instruct over **350 students** and offered project support for the Data Structures course.
- Increased mean exam scores **by 11% from 62% to 73%** in first semester of employment.
- Collaborated with faculty to create and refine teaching materials and assignments, enriching the curriculum.

## PROJECTS

### Camper's Hub | Node, Express, MongoDB, Bootstrap, Heroku

May 2024

- Developed a full-stack web application enabling users to discover, review, and rate campgrounds globally.
- Achieved a total of **20+ active users** within two months of deployment.
- Implemented user authentication and session management with cookie-based caching, enhancing security and experience.
- Designed **RESTful APIs** to facilitate geographic and user data flow between the client-side and server-side.

### Study Room Snatcher | AWS (Lambda and CloudWatch), Python, Selenium

April 2024

- Developed a Python **AWS Lambda** application that automates study room reservations with **100% success rate**.
- Hosted on Amazon, leveraging cloud capabilities for enhanced performance and reliability.
- Implemented a scheduled trigger using **AWS CloudWatch** to initiate the application every Sunday at 12:00 AM.
- Controlled the runtime environment by adding custom Lambda layers for better management.

### LawgicBot | React, Typescript, Python, Microsoft SQL Server

October 2023

- Hackathon team project that provides users with a legal assistant **AI Chatbot**.
- Powered by OpenAI API to increase AI response speed **by 15%** compared to IBM's WatsonX tool.
- Information from **React** frontend is processed by sending to Python backend using **Flask** for API usage.
- Leveraged **Microsoft SQL database** to store and manage user information.