

# Raymond Chen

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## EDUCATION

**University of Florida - GPA: 3.72/4.00**

Gainesville, FL

Computer Science B.S.

December 2024

Relevant Coursework: *Data Structures and Algorithms, Database Systems, Machine Learning, Operating System, Computational Linear Algebra, Software Engineering, Programming Language Concepts, Algorithm Abstraction & Design*

## TECHNICAL SKILLS

**Programming Languages:** Python, C++, JavaScript, Java, C#, SQL, HTML/CSS, R, Unix, ARM, MIPS

**Tools and Technologies:** Azure, AWS, MongoDB, Express, React.js, Node.js, Django, Linux, Bootstrap, Docker, Unity, LaTeX, SFML, JUnit, Pandas, NumPy, Seaborn, NLTK, Git

**Certifications:** Azure Fundamentals

## WORK EXPERIENCE

**Undergraduate Research Assistant**

August 2024 – December 2024

*Food and Resource Economics Department – Dr. Zhengfei Guan*

Gainesville, FL

- Built an automated article processing system that extracts, cleanses, and segments news content into analyzable units, handling complex text patterns using regular expressions
- Developed and implemented a Python-based NLP pipeline for sentiment analysis of Chinese news articles, leveraging OpenAI's GPT-4o API and NLTK for text processing

**Office of Information Technology Intern**

September 2024 – December 2024

*Florida Department of Transportation*

Lake City, FL

- Distributed Starlink satellites to Jacksonville using a FDOT van circumventing Wi-Fi outages at FDOT sites caused by hurricanes Helene and Milton
- Closed 20+ tickets resolving network infrastructure issues for FDOT clients
- Three-fold erase disk on Dell computers using Active @ KillDisk so old computers can be traded for credit

## PROJECTS

**EZSales** | MongoDB, Express, React.js, Node.js, Postman, Chakra UI

- Built a responsive e-commerce platform using Chakra UI and custom hooks, implementing a product listing page
- Developed RESTful API for product management, implementing CRUD operations and validation to enhance data integrity and application scalability
- Conducted comprehensive testing of API endpoints using Postman, ensuring functionality, reliability, and proper error handling

**MoveMate** | React.js, Python, Flask, MySQL, Javascript, CSS, Git

- Built a Full-stack web application where a bot can be trained to play like the user in 5 games
- Created Board using chessboardjsx integrated with chess.js allowing for move validation, engine integration
- Calculated optimal placement for each piece type using Negamax algorithm and cached positional bonus table
- Integrated a chat box with the ChatGPT API to provide personalized chess coaching and interactive banter

**GatorVid** | Django, Python, Bootstrap, Git

- Collaborated in a team of 5 using AGILE methodologies to develop a canvas clone with Django
- Integrated video streaming and ability to comment utilizing the YouTube API, allowing students to watch and comment on course materials
- Developed ability to generate motivational quotes using Google's Gemini API with a simple click of a button

**Programming Language Compiler** | Java, Junit

- Built a Lexer, Parser, and Interpreter for a custom programming language with 200+ Junit test
- Iteratively processed strings character by character to generate tokens, ensuring adherence to grammar specs.
- Constructed an abstract syntax tree from token sequences, validating correct grammar and syntax for compilation