

# Raymond Chen

Website: <https://gitraymond-chen.github.io/Raymond-portfolio/>

Email: [chenraymond187@gmail.com](mailto:chenraymond187@gmail.com) GitHub: <https://github.com/GitRaymond-Chen>

1720 SW 37<sup>th</sup> Street Apt. 164-B • Gainesville, FL 32607 • (929)-471-4030

## EDUCATION

**University of Florida - GPA: 3.79/4.00**

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

## WORK EXPERIENCE

**Undergraduate Research Assistant**

August 2024 – Present

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

Gainesville, FL

- Obtained URL of articles about China using NewAPI's HTTP REST API stored into Pandas DataFrame.
- Collaborated with team members to compared methods of Sentiment Analysis: TextBlob, VADER, Transformers.
- Tokenized news content using NLTK and applied DistilBERT transformer to assign sentiment labels and scores to each sentence.

**Office of Information Technology Intern**

September 2024 – Present

*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
- Shadowed IT and System administrators at the office learning how to complete tickets with proper documentation
- 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

- Developed responsive React components for an 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

- Developed login form React component to store user's unique credentials in MySQL database
- 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, HTML, Bootstrap, Git

- Collaborated in a team of 5 using AGILE methodologies to develop course/club organization software with Django templates combined with view
- 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