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, 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, Flask, MySQL, Javascript, Python, 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