

# IBRAHIM SAIFULLAH

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## EDUCATION

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**University of Texas at Dallas** – *Bachelor's in Computer Science* May 2024

- 3.895 GPA – Magna Cum Laude
- *Relevant Coursework:* Artificial Intelligence, Machine Learning, Computer Networks, Database Systems, Advanced Algorithms, Systems Programming in UNIX/Linux, Operating Systems

**Plano East Senior High School** – *International Baccalaureate (IB) Student* May 2020

- 36/36 ACT Score, 800/800 SAT Math II Subject Test Score, 4.17/4.00 GPA

## WORK EXPERIENCE

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**Foundation Medicine** – *Software Engineer Intern* May 2023 – August 2023

- Developed an Azure-hosted OpenAI-powered chatbot for Client Services to increase chat resolution rates by 14% overall and 35% for new hires, while tripling onboarding speed
- Engineered hospital software integrations in JavaScript to facilitate genomic profiling test orders
- Implemented unit tests integrated within a Jenkins-based CI/CD pipeline for automated validation
- Programmed Node.js scripts to automate team workflows and enhance operational efficiency

**Principal Financial Group** – *Software Engineer Intern* May 2022 – August 2022

- Developed Python Lambda w/ SQL query called by API Gateway to identify 17,000+ potential threats
- Engineered AWS architecture for Insider Risk to identify bad actors from S3 bucket and send to SOC
- Developed ticketing service in React.js hosted on AWS Amplify with AWS Cognito authentication

## PROJECTS

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### Freezer Pallet Drone Inspection

- Led a team of 5 in developing a web app for Ruiz Foods, visualizing pallet locations and assigning risk levels of pallet tipping, eliminating an estimated \$20,000 monthly loss and mitigating injury risk
- Architected a full-stack solution with a React.js frontend, Node.js/Express REST APIs, and a PostgreSQL database hosted on AWS RDS
- Utilized TensorFlow and Keras to build and train a Convolutional Neural Network with 98% accuracy

### Lyric Learner – [@LyricLearner](#) on Twitter ([Read how it works!](#))

- Utilized REST APIs (Genius and Twitter) in Python to parse artist lyrics and deploy Tweets via the Maven (Java) Framework
- Generated predictive artist lyrics using Markov Chains and analyzed changes in artist sentiment via Recurrent Neural Network-based Natural Language Processing from the Stanford NLP library

### BugWatch

- Wrote REST APIs in Python Flask for CRUD calls to create, edit, and retrieve bug or user data
- Developed frontend using Material UI and React to create display for bug tracking webpage

## SKILLS

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

**Others:** Flask, React.js, AWS, Docker, Kubernetes, Postgres, REST APIs, Jenkins, Git, Node.js, Kafka, Agile

## AWARDS

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UT Dallas Dean's List 2023  
United States Presidential Scholars Program Candidate 2020