

# ANVITHA PASUMARTHI

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## EDUCATION

### Portland State University

MS in Computer Science (3.7/4.0)

Sep 2021- Jun 2023

Portland, USA

### Gokaraju Rangaraju Institute of Engineering and Technology

B.Tech in Computer Science (3.8/4.0)

Aug 2017- Jul 2021

Hyderabad, INDIA

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## EXPERIENCE

### Portland State University | Student Assistant

Sep 2022-Jun 2023

- Optimized data collection by writing efficient Java scripts to pre-process and gather non-motorized traffic count data from various transportation and meteorological datasets and APIs.
- Designed and implemented a rate limiter to secure public APIs and prevent malicious usage, ensuring reliable access to transportation data for researchers.
- Improved data retrieval by crafting efficient SQL queries, facilitating the effective analysis of 20TB of data for transportation research.

### Goal Street | Software Engineer Intern

Jan 2021- Jun 2021

- Contributed to FACE, a startup focused on skill development, training students to excel in various industries
  - Utilized React and Redux JavaScript libraries to work on various FACE web pages.
  - Collaborated with team using Git and Github version control systems to manage changes made to assigned tasks
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## TECHNICAL SKILLS

**Languages:** Python, Java, Maven, Node JS, TypeScript, C++, C#, JavaScript, Shell Scripting, Linux

**Databases:** MYSQL, PostgreSQL, NOSQL, RDBMS, MongoDB, Elastic Search, DynamoDB

**Developer Tools:** Databricks, Docker, Kubernetes, Linux, Google Cloud Run, GITHUB, VS Code, IntelliJ

**Tools and Frameworks:** ASP.NET, SpringBoot, Microservices, JSP, JPA, JEST, Full Stack Development, Spark, React, Redux, AWS Lambda, Flask, Express, REST API Development, GraphQL, Agile

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## ACADEMIC PROJECT

### Serverless URL Shortener | AWS, JAVA, API gateways, DynamoDB

- Developed a user-friendly static HTML webpage with an intuitive interface for URL shortening. Implemented serverless architecture using AWS Lambda functions to handle GET and POST requests.
- Successfully integrated DynamoDB as the database solution to securely store and manage short URLs and their destinations. Ensured efficient URL redirection, enhancing user experience and reducing load times. Demonstrated proficiency in front-end development, back-end logic, and AWS services.

### Hern Routing Application | Reactjs, Google Maps Platform

- Implemented a website that allows delivery drivers to reach multiple destinations in a minimal time.
- The application was designed for food delivery drivers and cab drivers to reach multiple destinations in minimal time using real-time traffic updates.
- Used Tom-Tom map SDK to acquire real-time traffic updates.

### Internet Relay Chat | Python, VS Code

- Developed an Internet relay chat project based on a single-server architecture, allowing users to connect to the same server. Deployed the code in AWS by creating the ec2-instance.
- Implemented using Python programming language. Users can create a group, join a group, post a message, publish a broadcast message, see the list of accessible features, and exit a group.

### Web Application using ReactJS | ReactJS, HTML, CSS, Bootstrap

- Developed an interactive Web Application that displays the user's current mood with attractive emojis.
- Significant gestures using ReactJS, HTML, CSS, and Bootstrap and tested it with Mocha and Chai frameworks.

### Plant Disease Detection | Python, HTML, CSS

- Implemented using PyTorch and used CNN Architecture with CNN Layer, Max Pooling.
  - The model was trained by using variants of the above layers mentioned in model building and by varying hyperparameters. The best model was able to achieve 97.5% of test accuracy. The model was tested on a total of 17572 images of 38 classes.
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## CERTIFICATES

- Back End Development and APIs of coursework by FreeCodeCamp
- Database Design and Database Programming by Oracle Academy

Sep 2022

Jun 2019