

# Anagha Viswanath

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## EDUCATION

### Master of Science in Computer Science and Engineering

Santa Clara University, Santa Clara, California

Jun 2024

GPA: 3.7

**Relevant Coursework:** Data Structures & Algorithms, Operating Systems, Cloud Architecture, Object Oriented Programming & Design

### Bachelor of Engineering in Information Science and Engineering

Nitte Meenakshi Institute of Technology, Bangalore, Karnataka India

Apr 2020

GPA: 3.7

## PROFESSIONAL EXPERIENCE

### Database Engineer Intern, Western Allied Mechanical, Union City, California

Apr 2024 – Present

- Interpreted stakeholder requirements into comprehensive Postgres database structure to provide precise project tracking metrics via Power BI leading to 70% enhancement in cost estimation accuracy and improved client budget adherence.
- Orchestrated migration of project tracking data from external SQL Server to Postgres on Microsoft Azure to tackle data inaccuracies leading to 40% increase in data consistency and 20% improvement in data accessibility for project managers.
- Automated data pipelines to extract and transform Excel input, ensuring accurate dashboards and 35% improved data reliability.

### Full Stack Developer, Frugal Innovation Hub, Santa Clara, California

May 2023 – Jan 2024

- Designed software architecture for bilingual educational mobile app, integrating features of bilingual word problem rendering, audio-based output, and grade-based segmentation, incorporating feedback from 10+ end users for iterative enhancements.
- Implemented database APIs for document retrieval, enabling 3 distinct problem rendering methods using Flutter with Firebase.
- Developed admin dashboard feature to automate image resizing and database updates, resulting in 30% reduction in manual tasks.

### Software Engineer, Wipro Technologies, Bangalore, Karnataka India

Sep 2020 – Aug 2022

- Led Microsoft Azure migration initiative to address on-premise data inconsistencies by scripting SQL procedures and optimizing database structures, resulting in 90% data reliability and seamless integration with Power BI for enhanced analytics capabilities.
- Engineered ETL solution to consolidate client data, delivering 100,000 employee records with 95% compliance and daily updates.
- Implemented user-friendly Power BI designs to enhance real-time data visualization and optimize dashboard performance, resulting in 30% increase in data accessibility and usability for stakeholders leading to actionable insights for superior decision making.
- Developed and maintained automated data pipeline workflows using Azure Data Pipelines, reducing data processing time by 40% and ensuring timely, accurate data delivery, which enhanced support for critical business operations.
- Utilized Agile methodologies to automate unit testing of PaaS microservices with Pytest and Robot Framework, employing Git for version control, and deploying via Kubernetes clusters and Docker containers reducing deployment time by 20%.

## SKILLS

<b>Programming Languages:</b>	SQL, T-SQL, Python, Java, C++, C, JavaScript, PHP, HTML, CSS, Dart
<b>Frameworks/Libraries:</b>	Spring Boot, Flask, Node.js, Express.js, ReactJS, Flutter, JQuery, Bootstrap
<b>Database:</b>	Oracle, MySQL, MongoDB, PostgreSQL, SQL Server, SAP HANA, Firebase
<b>Cloud Technologies/DevOps:</b>	Amazon Web Services (AWS), GCP, Docker, Kubernetes, CI/CD, Jira
<b>Other Tools:</b>	Git, Power BI, Github, Gitlab, Postman, BitBucket, Linux, Unix

## PROJECTS

### Event Management System | NoSQL- MongoDB, Spring Boot, React JS, HTML/CSS, Bootstrap

[Github](#)

- Devised 13 REST APIs in Spring Boot with MongoDB, facilitating CRUD operations, and integrating JSON Web Token (JWT) role-based authentication mechanisms for secure user login and precise access control, leveraging BCrypt library for password encryption.
- Automated email notifications upon seat booking via Java SMTP to streamline event booking process and enhance user experience.

### E-Commerce Shopping Cart | AWS EC2, MySQL, Flask, JavaScript, HTML5/CSS3

[Github](#)

- Constructed full-stack IoT-based real-time e-commerce cart, securely transmitting barcode images by converting to base64 string via Flask's RESTful APIs, integrated OAuth for secure access, and hosted system on an AWS EC2 instance with Apache Tomcat.
- Optimized server performance by client-side rendering via Ajax without HTTP calls, ensuring efficient server resource utilization.

### Give4Good (Hackathon) | ReactJS, HTML5/CSS3, MySQL, Flask

[Github](#)

- Created user interfaces in cross-functional teams using ReactJS fortified with authentication and security using Python and OAuth.
- Improved dynamic map displays and location pinning through seamless integration of Google Maps APIs with JavaScript, facilitating real-time data visualizations and elevating user interaction with enhanced functionality.

### Leukemia Detection Using Deep Learning | Keras, Tensorflow, CNN, Computer Vision, Flask, HTML/CS

[Github](#)

- Created Convolutional Neural Network (CNN) based image classifier in LeNet architecture using Keras, TensorFlow, and Python, achieving 91% training and 87% testing accuracy with backend Flask and front-end JavaScript for user-friendly model interaction.

## ACHIEVEMENTS

- Published research paper "[Detection of Leukemia Using Convolutional Neural Network](#)", featured in Springer 2021 and presented paper at ERCICA Conference among 44 distinguished papers, showcasing impactful contributions to field of Computer Science.
- [Amazon Web Services \(AWS\) Certified Cloud Practitioner](#)