

# DINESH AKURATHI

 [www.dineshakurathi.me](http://www.dineshakurathi.me)

New Brunswick, NJ - 08901

 (732) 522-8136  [dinesh.akurathi9@gmail.com](mailto:dinesh.akurathi9@gmail.com)  [linkedin.com/in/dinesh-akurathi](https://www.linkedin.com/in/dinesh-akurathi)  [github.com/DineshAkurathi](https://github.com/DineshAkurathi)

## Education

### Rutgers University

*Masters in Computer Science Specializing in Robotics*

New Brunswick, NJ, USA

Aug 2022 - May 2024

### K L University

*Bachelor of Technology in Mechanical Engineering*

Vijayawada, AP, IN

Aug 2016 - May 2020

## Relevant Coursework

- |                     |                              |                      |                        |
|---------------------|------------------------------|----------------------|------------------------|
| • Internet Services | • Computer Vision            | • Mathematical       | • Database Systems for |
| • Object Oriented   | • Introduction to Artificial | Foundations for Data | Data Science           |
| Programming         | Intelligence                 | Science              | • Machine Learning     |

## Technical Skills

Python, Amazon AWS, Docker, Kubernetes, AZURE, Java, SAP PI/PO, Service now, C, HTML, CSS, JavaScript, MongoDB, MySQL, Machine Learning, Artificial Intelligence, Postman API, HTTP, Node.js, Angular.js, Linux, Windows, Ubuntu, API, Spring Boot, Apache, Android Studio, Database Design, VS Code, Git, Decision Trees, containerization, Relational Databases, C, XML/JSON, C++, Objective-C, HTML5, CSS JavaScript, Bootstrap/ jQuery, Oracle DB, Spring Frameworks, SOAP API, ReactJS

## Projects

### Multi-Model Approach for Object Detection, Segmentation, and Tracking | *Python, torch, openCV, cuda* December 2023

- Developed a multi-model approach combining object detection, segmentation, and tracking techniques to accurately identify and track objects in videos.
- Implemented object detection using GroundingDINO, segmentation using SAM, and tracking using CoTracker.
- Successfully tracked all objects in a video file, demonstrating the effectiveness of the multi-model approach in real-world scenarios

### Online Auction System | *HTML/CSS, Java, MySQL, Javascript, Git, Spring Framework*

April 2023

- Designed and implemented an eBay-like online auction system for BuyMe, enabling seamless item listing, bidding, payment processing, and user feedback management.
- User-centric online auction platform with distinct roles: Buyers, enabling item searches, bidding, and bid history tracking, and Sellers, facilitating item listings, auction history monitoring, and listing management.

### Finding your way | *Python, Numpy, Neural Networks*

March 2023

- Developed a Python script for probabilistic drone location tracking and adaptive search within complex grid-based environments.
- Utilized the A\* algorithm and Dijkstra's algorithm for efficient pathfinding to locate the drone while minimizing movements.
- Utilized Python libraries, including NumPy and Matplotlib, for numerical computations and data visualization.

## Professional Experience

### Programmer Analyst | *Cognizant Technology Solutions*

Sep 2020 - Aug 2022

- \* Facilitated application maintenance services for about 400 interfaces for SAP enterprise applications which will have a flow of approximately 200,000 transactions per day.
- \* Collaborated with seven cross-functional teams to investigate and address discrepancies, effectively troubleshooting issues and ensuring seamless resolution.
- \* Improved 30 interfaces and applications as per the technical specification document
- \* Unit-tested use cases as per provided test data/description over 8 quality systems
- \* Prepared technical specification documents as per standards involving 10 teams

### Web Development Intern | *Cognizant Technology Solutions*

Dec 2019 - Apr 2020

- \* Acquired JAVA, HTML, CSS, SQL, and Spring knowledge and developed a web-based application with a group of 4.
- \* Established all aspects of design and development and offered solutions when necessary and engaged in meaningful discussions and activities with a group of 50 people.

## Soft Skills

- |                           |                |                     |                  |
|---------------------------|----------------|---------------------|------------------|
| • Effective Task Planning | • Team Synergy | • Time Optimization | • Inter-personal |
| • Constructive            | • Adaptability | • Rapid Assimilator | Communication    |

## Certifications

### AWS Certified Cloud Practitioner

*AWS cloud services, including cloud architecture, security, and best practices*

Date of Issue: Jul 03, 2022

Validation Number: P4QD3WPBNFF4QYW1

### SAP Certified Development Associate - SAP Integration Suite

*Developing and configuring seamless cloud integrations within the SAP ecosystem*

Date of Issue: Aug 01, 2022

Verify: <https://www.credly.com/go/9JmWxVhh>

### SAP Certified Technology Associate - SAP Process Orchestration

*Integrating and automating business processes across the SAP ecosystem*

Date of Issue: Aug 21, 2022

Verify: <https://www.credly.com/go/KWboLbHu>