

# SAI SANDEEP NANGINENI

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## PROFILE SUMMARY

Proficient and talented in problem solving, with good written and verbal communication, analytics, coding, motivated and has a vision. Talented, innovative, and enthusiastic about learning emerging technologies, and solve complex problems. Professional experience in application development. Good knowledge of workflows, object-oriented design and SDLC(Software Development Life Cycle).

## EDUCATION

### Master's in Computer Science

(August 2021 - Present)

California State University East Bay (CSUEB), California, United States

**Coursework:** Data Structures, Database Management Systems, Operating Systems, Advanced Computer Networks, Full Stack Development, Advanced Algorithms.

### Bachelors in Computer Science Engineering

(August 2017 - August 2021)

Gokaraju Rangaraju Institute of Engineering and Technology, India

**Coursework:** Data Structures, Database Management Systems(DBMS), Object-Oriented Design(OOP).

## TECHNICAL SKILLS

- **Programming Languages:** JavaScript, C++, C#, Java, Python, C
- **Frameworks:** .NET, VueJS, React Native, Spring Boot, Bootstrap, Mocha, Chai
- **Relational Databases and Non-Relational Databases:** MySQL, Oracle, MongoDB, DynamoDB
- **Tools:** IntelliJ, Postman, NPM, Git, Github, AWS, Google Maps Platform, Websockets, Android Studio
- **Web Technologies:** HTML5, CSS, ReactJS, NodeJS, ExpressJS, Rest APIs, AngularJS, Typescript
- **Platforms:** Linux, Windows, Mac
- **Interests:** Automation, Web development, Micro Services

## PROJECTS

- **Farmers Club Web Application | Reactjs, Express.js, Node.js**
  - Designed and developed a Web application for a farming club using MERN (MongoDB, Express JS, ReactJS, Node JS) to display the statistical growth in the crop yield and buy their franchised apparel.
  - Implemented Role-Based Authentication to provide different UI for different roles (mem/non-mem/admin).
  - Backend unit Testing scripts are scripted in Mocha with chai assertions and executed.
- **Distance Matrix Routing Application | Reactjs, Google Maps Platform**
  - Worked independently on a website for delivery drivers to reach multiple destinations in minimal time.
  - Used TomTom map SDK to get the real-time traffic on roads to give the best route.
  - The default route was calculated for the cars. Can be calculated for other modes of transport as well.
- **Pintos Operating System Implementation | C, Unix**
  - Worked on Kernel Thread Implementation, Loading of User Programs into memory, and running them. Also handled File System and Virtual Memory from scratch.
  - Gained extensive knowledge of multithreading, Operating System concepts like Semaphores, and Job Scheduling Algorithms.
- **Serverless URL Shortener | AWS, JAVA, Lambda function, API gateways, DynamoDB**
  - Designed a static HTML webpage and implemented a Serverless URL Shortener.
  - GET, POST methods were used to redirect the short URL and to store the token value.
  - DynamoDB was used to store the short and destination URLs.
- **Cryptocurrency Dashboard | Reactjs, React Hooks, Rest API**
  - Developed a dashboard to display the price of Crypto Currency in real-time.
  - Real-time prices are retrieved from cryptogecko.com with the help of open-source Rest API.
  - Price updates of the digital currencies are executed with react hooks.

Here is my portfolio showing my interests and the projects I have worked on. [Please have a look.](#)