

RAJ NARENDRA SHAH

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SUMMARY

Skilled in various programming languages, with a proven track record of delivering high-quality code. Adept at collaborating with cross-functional teams and stakeholders to gather requirements and design innovative solutions. Experienced in the full software development lifecycle, from concept to deployment, and possess expertise in agile methodologies. Strong problem-solving skills, analytical mindset, and a commitment to continuous learning and professional growth.

EDUCATION

California State University, San Marcos | *Master of Science in Computer Science* Aug '22 - Dec '23
Relevant courses: Design Patterns, Analysis of Algorithms, Cloud Computing, Machine Learning **CGPA: 4.0 / 4.0**

WORK EXPERIENCE

Research Intern *California State University, San Marcos* Jun '23 - Aug '23

- Conducted analysis and applied deep learning techniques to solve protein **multi-label classification problems**.
- Preprocessed large-scale protein sequence and structural data for extracting features for enhanced model training.
- Communicated findings and insights to team members through clear and concise reports and presentation.

Senior Software Engineer *Cimpress India Pvt Ltd* Sept '20 - Aug '22

- Worked in B2B company that provides customer-focused, mass customization platform among 26 clients.
- Owned and supported over 10 end-to-end services, involved collaboration with clients, discussing designs with UX team.
- Contribution to all aspects: Frontend, Backend, test cases for maintenance, managing database, infrastructure.
- Improved website performance by implementing optimization techniques, resulting in a 67% increase in speed.

Software Internship *K. J. Somaiya College of Engineering* Oct '18 - Jan '19

- Developed Car-Doc application for real-time vehicle verification.
- Implemented number plate recognition module with 85.28% average accuracy and 14.72% error rate.
- Utilized blockchain technology and IPFS network for data security and document storage.
- Published Paper in [International Journal of Education and Management Engineering \(IJEME\)](#)

TECHNICAL SKILLS

Programming Languages: JavaScript, C#, Python, C, C++, Java, TypeScript, SQL, NoSQL

Web Development and Frameworks: HTML5, CSS3, React.js, Redux, Hooks, Bootstrap, Node.js, Microsoft .NET

Database and Cloud Services: MongoDB, PostgreSQL, MySQL, Firebase, Elastic Cloud Computing (EC2), Relational Database Service (RDS), Simple Queue Service (SQS), Dynamo DB, Simple Storage Service (S3)

Development Tools and Project Management: Postman, Docker, Snowflake, Sumo Logic, Confluence, Git, JIRA

ACHIEVEMENTS ([Certificates](#))

- Recognized and awarded the title of **Dedicated Employee** by Cimpress for exemplary contributions to the company.
- **Qualified** for 2 International Collegiate Programming Contest Regionals (**National Level Rounds**)
- Achieved **first place** in **more than 15 competitive coding competitions**.

PROJECTS

BANIYA: <https://baniya.org.in> React.js, Node.js, firebase

- An e-commerce application with vast catalog of **over 3000 products**.
- Intuitive user interfaces for a seamless user experience for multi-dimensional devices.
- Full fledge e-commerce applications that includes numerous functionalities: User/Admin Authentication, Multi-level security, search & filter system, pagination, adding products to cart/order. Admin accessed managements of categories, products, advertisements, Real-time order tracking, incorporation of promotional features like offers, cashback, promo codes for boosting sales.

STARTUP INCUBATOR: [Demonstration Video](#) Python (flask), MySQL

- A Platform for approaching an Investors and Startup companies with a filter of various choice.
- **Functionalities:** Investor/Startup search, profile management, geo-based depiction model, trending domain analyzer.
- Predictive model of modified Random Forest Algorithm to determine success rate of startup companies.
- Achieved an accuracy of 88.6% with using a dataset of 8 classes and 1176 data entries.

UNIVERSAL PASS SYSTEM React.js, Node.js, Solidity

- One stop platform for customer purchasing and managing variety of passes (bus, train, movie, parks and many other).
- Secured and tamper-resistant, transaction system using blockchain technology was integrated. The system ensures that every transaction is stored anonymous between seller and customer.
- A user-friendly scanning system that verifies user preventing misuse and duplication of any pass.

OTHER PROJECTS

- Amazon Users Relevancy • Codesmell Detection • Online Messaging • Avatar Maker • Blog Page Knave Post • Sudoku solver • Multi player online games • Offline games • Rubik's cube solver • Smart Language Translator and [many more](#)

PUBLICATIONS / TECHNICAL PAPERS

- **Blockchain Based Secure Traffic Police Assistant System** ([Paper Link](#))
- **Startup Incubator:** A Predicting successful startup using hybrid intelligence ([Paper Link](#))
- **Cloud Scent:** A model for code smell analysis in open-source cloud ([Paper Link](#))