

HETAL PATEL

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EDUCATION

Master of Science in Computer Science , California State University, Fullerton	August 2022 - May 2024
<ul style="list-style-type: none">Relevant Courses: Advanced Algorithms, Software Architecture, Introduction to Machine Learning	
Bachelor of Engineering in Information Technology , Mumbai University, Mumbai	August 2011 - May 2015
<ul style="list-style-type: none">Relevant Courses: Data Structure and Algorithms, Software Engineering, Database Technologies, Artificial Intelligence	

PROFESSIONAL EXPERIENCE

Software Engineer – AI Services Intern , Kratos AI LLC, Texas	August 2024 - Present
<ul style="list-style-type: none">Implemented AI and machine learning algorithms, including data preprocessing, model training, and validation, to enhance model accuracy and performanceContributed to the development of software applications and tools that integrate AI models, adhering to best practices in coding, version control, and software testing	
Senior Software Engineer , Manek Consulting, Mumbai	May 2019 - March 2021
<ul style="list-style-type: none">Orchestrated automation of end-to-end financial processes, resulting in an 88% reduction in procedure time and tripling revenue through digital transformationsRevolutionized app performance and user experience through socket programming, strategic caching, and optimizations, achieving load times as low as 30 millisecondsDevised and maintained relational database schemas, crafted queries for data management, leading to a 55% growth in server performance, and monitored security for optimal deployment in distributed systemsDirected a team of 4 junior engineers, enhancing productivity and code quality by 20% through agile practices	
Software Developer , Rupeesed Technology Venture Private Limited, Mumbai	October 2016 - May 2019
<ul style="list-style-type: none">Supervised new feature expansion of time-series widget, diminishing costs by 15% and augmenting active competenciesRefactored code, enhanced data visualization, and integrated asynchronous web services, resulting in a 57% efficiency improvement and seamless integrationIncorporated RESTful APIs, serverless functions and Microservices in Java to facilitate fluid communication, leading to a 91% increase in front end to back-end data driven exchangeability, as evidenced by API response times	

OTHER EXPERIENCE

Teaching Assistant , California State University, Fullerton	August 2023 - May 2024
<ul style="list-style-type: none">Led engaging class discussions for Introduction to Programming and Object-Oriented Programming labs, fostering hands-on exercises in C++ to tackle complex issues, and accomplishing 70% rise in students' independent analytical skills	

PROJECTS

3D Object Detection in Single Image , GitHub	February 2024 - May 2024
<ul style="list-style-type: none">Executed PyTorch-based YOLOv5 deep learning computer vision model in Linux for 3D object detection in single images, integrated with ROS2 on a Gazebo simulator for estimating 3D bounding boxes from robot-captured 2D images	
Heart Disease Diagnosis , GitHub	October 2023 - December 2023
<ul style="list-style-type: none">Utilized a probabilistic approach with a Bayesian network model to predict likelihood of heart disease occurrence and its type based on variable parameters, succeeding 89% precision throughout dataset	
Airline Analysis , GitHub	March 2023 - May 2023
<ul style="list-style-type: none">Conducted three big data analyses in AWS cloud with 97% accuracy across huge dataset, maximizing scheduling, enhancing on-time performance, and providing valuable insights for airlines and passengers	
Electric Car Traveler , GitHub	October 2022 - December 2022
<ul style="list-style-type: none">Conceived an algorithm for weighted undirected graphs to calculate minimum stops required for recharging an electric car from source to destination, honing 63% energy consumption and travel capability	

TECHNICAL SKILLS

- Languages:** Java, Python, C++, SQL, JavaScript, HTML/CSS, R, Rust, TypeScript, XML, C#
- Frameworks:** Node.js, Express.js, Vue, Django, Flask, React, Angular, Next, Bootstrap, Alpine.js, MapReduce, Spring Boot
- Libraries:** jQuery, Ajax, Vue.js, log4j, Junit, Jasmine, Maven, Hadoop, Scikit-learn, NumPy, Pandas, Matplotlib
- Database:** MySQL, PostgreSQL, MongoDB, SQLite, Cassandra, Apache HBase, Hive, Oracle
- Tools:** Postman, Kubernetes, Git, GitLab, Eclipse, Kafka, Docker, JIRA, AWS, EMR, EC2, S3, Spark, Azure, Jenkins