

Ganesh Patil

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EDUCATION

Northeastern University, Boston

Master of Science in Computer Software Engineering

Relevant Courses - Algorithms, Application Engineering Development, Web Design and User Experience, Object Oriented Programming

Boston, MA

Expected May 2024

University of Pune, India

Bachelor of Engineering, GPA: 9.21/10

Pune, India

May 2020

TECHNICAL SKILLS

Programming Languages: Java, JavaScript, Python, C++, TypeScript

Web Technologies: Node.js, React.js, Redux, Angular.js, Webpack, JQuery, Django, Spring Boot, Spring MVC, Hibernate

Database Technologies: MongoDB, MySQL, Oracle, H2

Tools & Frameworks: Amazon Web Services (AWS - Lambda, EC2, S3, SNS), Docker, Kubernetes, Jenkins CI/CD, Postman, Git, Agile Methodologies, Bootstrap, Frontend, Backend, Microservices, Distributed Systems, REST API

EXPERIENCE

HCL Technologies

Pune, India

Software Engineer

October 2020 - June 2022

- Developed resource-oriented, backwards compatible, versioned, logically nested server-side APIs and built project specific custom data models for enabling swift integration of Teamcenter with other client services
- Devised and implemented an effective tool within Siemens Teamcenter web client to clone millions of CAD data assembly lines improving overall performance by 25% which increased user engagement by 20%
- Conceptualized and delivered a real-time Data Migration Dashboard using Node.js and React.js, providing advanced analytics tools and automating data manipulation with H2 database, resulting in savings of 3 hours of daily manual toil
- Established a secure one-way communication channel between an enterprise database and Qlik analytics tool, optimizing real-time data retrieval and processing for generating performance reports and sales statistics, providing key stakeholders with valuable insights, resulting in a 45% reduction of overall lead time
- Contributed in HCL CoE (Center of Excellence) on development of innovative custom solutions to optimize design workflows

AlsIs Technologies

Pune, India

Software Developer Intern

February 2020 - September 2020

- Build a full-stack analytics software utilizing Java Spring Boot and React, improving application performance by optimizing critical SQL queries and reducing total processing time by up to 2x
- Collaborated closely with the operations team to deploy application for production using AWS EC2 and leveraging Docker
- Led 4+ knowledge transfer workshops for new recruits, contributing to a significant increase in team performance and higher levels of client satisfaction

PROJECTS

Jobme: Job Tracking Portal | Node.js, React.js, Express.js, Redux, MongoDB, Heroku

March 2022 - June 2022

- Created a full-stack web application 'Jobme', streamlining job application management and tracking. Incorporated a secure authentication system using JSON Web Tokens and managed user sessions, resulting in a seamless user experience.
- Designed a user-friendly platform with features including login/registration, guest sign-in, profile creation, job listing management, advanced job search/sort/filter options, and a dashboard with interactive bar graphs for data visualization

[Application Link](#) | [GitHub Link](#)

GPA Estimator | Python, Django, JavaScript, Ajax, HTML5, CSS3, Bootstrap

April 2021 - May 2021

- Developed and deployed 'GPA Estimator', a Python-based app for undergrad students at the 'University of Pune'
- The application enables students to estimate their grades based on relative course difficulty preferences and provides valuable insights for managing and planning academic coursework effectively

[Application Link](#) | [GitHub Link](#)

Training Portal | C++, System Design, File handling, Design Patterns, Multithreading

November 2020 - January 2021

- Implemented a robust C++ backend application, featuring functionalities such as scheduling of training plans for trainers, employee enrollment in training sessions, and integrating a chat feature for seamless communication

PUBLICATIONS & ACHIEVEMENTS

- Patent** - "Implementation of dynamic road Infrastructure as per run time requirement" - Implemented an effective way to maximize the utilization of present road infrastructure by optimizing uneven traffic density across lanes.
Status: Published | Patent No: 202021030039
- Founder and Captain of Team Bolt**, designed and manufactured a smart electric bike equipped with several features including lane departure assist, cruise control, auto indicators. Achieved *All India Rank-2* in the prestigious SAE (Society of Automotive Engineers) Electric Bike Competition, 2019 edition