

DIPANKAR BHATIA

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SUMMARY

Innovative Software Engineer with 3 years of experience in designing high-performance, scalable, and distributed full-stack systems. Proven expertise in ensuring system reliability and solving complex challenges to drive business growth

WORK EXPERIENCE

Software Engineer Jul 2024 – Present
Changing the Present | **Node.js, PostgreSQL, AWS, EC2, Lambda, Kafka, Redux, Agile** New York, USA

- Reduced backend response times by 25% and scaled services to handle over 100K+ API calls daily by developing optimized RESTful APIs with Node.js and implementing Redux for efficient state management
- Enhanced scalability and decision-making by designing data pipelines and integrating predictive models using Kafka
- Optimized AWS resource allocation by tuning EC2 instances and leveraging Lambda functions, cutting costs by 20% while improving scalability for high-demand services and monitoring performance metrics with Grafana
- Streamlined database performance by optimizing PostgreSQL queries & indexing which reduced query times by 30%

Software Engineer Intern Jan 2024 – May 2024
Stevens Institute of Technology | **Python, Django, React.js, S3, Redis, GraphQL, Agile** Hoboken, USA

- Designed and implemented data processing pipelines using Python Django, processing over 10,000+ records/hour
- Reduced database costs by 15% and improved API response times by 200 ms through Redis caching for frequently accessed data and optimizing storage using AWS S3, minimizing redundant queries and database load
- Collaborated with the team using Scrum, Agile, and Kanban methodologies to prioritize tasks and planning sprints

Software Engineer Mar 2021 – Aug 2022
Kellton | **Java, SpringBoot, MongoDB, SQS, Jenkins, JUnit, Cloudwatch, Agile** Gurugram, India

- Engineered high-performance Java Spring Boot microservices, optimizing API response times by 30% and increasing system throughput to support 100,000+ concurrent users, while maintaining clear documentation using Swagger
- Improved system stability by reducing recurring issues by 95% through debugging and extensive root cause analysis
- Automated deployment workflows by integrating Jenkins for CI/CD pipelines and managing version control & collaboration using GitLab, reducing deployment time from 2 hours to 30 minutes per release
- Optimized MongoDB queries, reducing query execution time by 40%, and implementing efficient indexing strategies to handle high-traffic operations with over 100,000+ concurrent users
- Increased code reliability and system performance by 20% using JUnit and Mockito and leveraging AWS CloudWatch for real-time metrics, logging, and alarms, enabling proactive issue resolution and improved scalability

Software Engineer Intern Jul 2020 – Aug 2020
Bharat Heavy Electricals Limited | **Express.js, Node.js, React.js, MongoDB, Git** Noida, India

- Led a small team in building a full-stack application using Node.js, incorporating Software Development Lifecycle (SDLC) best practices to deliver secure and streamlined operations for 200+ users
- Developed responsive React.js UI components while ensuring secure development practices with Git
- Applied Test-Driven Development (TDD) to improve code quality through robust testing and streamlined workflows

PROJECTS

Stay Ease | **Java, Spring Boot, Docker, PostgreSQL, Firebase, JWT, AWS Elastic Beanstalk, AWS CodeDeploy** ([link](#))

- Developed a hotel booking system using Spring MVC architecture, incorporating Redis caching for optimized data retrieval, JWT for secure authentication, and Docker for containerization, boosting system performance by 60%
- Streamlined deployment process by integrating AWS CodePipeline and CodeDeploy with Elastic Beanstalk, achieving automated CI/CD workflows that reduced deployment time by 90+ minutes

Nurture Nest | **React.js, Redis, MongoDB, Redux, AWS S3, Node.js, Socket.io, OAuth** ([link](#))

- Architected an interactive childcare management platform using the MERN stack, integrating OAuth for secure user authentication and implementing real-time communication via a secure chat feature built with Socket.io
- Integrated AWS S3 for secure storage of user-uploaded images and implemented Redux for state management

SKILLS & CERTIFICATIONS

Programming Languages: Java 17, Python, JavaScript, Kotlin, HTML5, CSS3, XML
Frameworks: Spring Boot, Node.js, React.js, Microservices, Docker, Kubernetes, Android Studio
Databases: Oracle, PostgreSQL, Cassandra, MongoDB, MySQL
Tools: Redis, Maven, GraphQL, Kafka, JSON, Jenkins, Grafana, JUnit, Azure, Postman, Logstash, JIRA, Swagger, Git, GitLab
AWS Services: IAM, SQS, ECS, Lambda, S3, RDS, Code Deploy, API Gateway, CloudFormation, Route 53, Cloudwatch, CLI

EDUCATION

Master of Science (M.S.) in Computer Science Sep 2022 - May 2024
Stevens Institute of Technology Hoboken, USA
Coursework: Agile Software Development, Web Programming, Design Patterns

Bachelor of Technology (B.Tech.) in Computer Science and Engineering Aug 2017 - Aug 2021
Dr. A.P.J Abdul Kalam Technical University Uttar Pradesh, India
Coursework: Data Structures, Algorithms, Operating Systems