Abhishek Mishra

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EDUCATION

Stevens Institute of Technology, Hoboken, NJ   Dec 2022
Master (Computer Science) **GPA:** 3.96 out of 4
Related Courses: Web Programming (Back-End), Distributed Systems and cloud computing, DBMS, Web Programming 2 (Front-End), Data Structure and Algorithms

SRMCEM, India   Aug 2017
Bachelor (Computer Science)
Related Courses: Data Structures, Algorithms, Web Technology, Computer Networks, DBMS

SKILLS

- **Programming Languages:** JavaScript(ES6+), C++, Java, PHP, TypeScript, Python
- **Databases:** MySQL, PostgreSQL, MongoDB, Redis
- **Web Technology:** Node.js, React.js, Redux, Socket.io, GraphQL, HTML5, CSS, Ajax, Gulp.js, Firebase, Tailwind CSS, Vue.js, SASS, JSON, Bootstrap, Restful API, NPM, Jest, React Native, Material UI
- **Frameworks and Tools**: Express.js, Next.js, Vite.js, Expo, Django, Git, Jira, Amazon EC2, Amazon SES, AWS lambda

EXPERIENCE

Stevens Institute of Technology, Hoboken, NJ   Sep 22-Dec 22
Teaching Assistant
Technology: C++, Data Structures, Algorithms
- Conducted classes and doubt sessions with students for graduate-level course Data Structures and Algorithms
- Handled homework and exam paper grading, and coursework structuring

Compitek IT Services, New Delhi, India   Oct 17-Mar 21
Software Developer
Technology: MongoDB, React.js, Express.js, Node.js, Redis, Redux, Typescript
- Collaborated in developing web services using the MERN stack as a primary technology
- Translated designs and wireframes into high-quality code increasing efficiency by 10%
- Developed single-page applications by employing React Lifecycle methods and React hooks
- Improved the response time of APIs by 200% by implementing in-memory cache using Redis, useMemo, and useCallback
- Increased performance of applications by 70% by reducing number of API calls using memoization
- Performed Authentication and Authorization by using express session for Node.js applications
- Employed Jest for writing unit tests and Postman for testing Restful APIs endpoints
- Used Redux to manage state and Redux thunk as middleware to handle asynchronous applications
- Controlled Race conditions in redux-based applications

ACADEMIC PROJECTS

Safe House – application for storing files, notes, and more   Summer 2022
Technology: Next.js, MongoDB, Tailwind CSS, Firebase, Typescript
- Made a full-stack application using **Next.js** and **TypeScript** for storing Notes, Passwords, Docs, and Events
- Created database using **Prisma**, and **MongoDB** and used **TailwindCSS** for styling
- Leveraged **Firebase** for authentication and storing documents

Stevens Institute of Technology, Hoboken, NJ   Spring 2022
Asian Mart - an e-commerce application for groceries
Technology: MongoDB, Express.js, React.js, Redux, Node.js, GraphQL, Firebase, Stripe.js
- Designed an e-commerce platform as a team leader to shop for groceries
- Built Back end with **GraphQL** and database using **MongoDB** and Front end deploying **React.js**, **Redux**
- Implemented user authentication and authorization utilizing **Firebase Authentication**
- Operated **memo** and **callback** to reduce re-rendering and managed **Event Propagation** to improve performance
- Integrated **Stripe.js** for payments and hosted APIs on **Node.js** server

Stevens Institute of Technology, Hoboken, NJ   Fall 2021
Questionnaire - a question-and-answer portal
Technology: MongoDB, Express.js, Node.js, Handlebars, Bootstrap
- Lead a team of 3 to build a question-answer website where users can submit questions, and answers, subscribe, and comment
- Programmed **REST APIs** using **Express.js** and templating using **Handlebars** and **Bootstrap**
- Built Back end and database deploying **Node.js** and **MongoDB**
- Performed **Ajax** request and query operations on MongoDB for voting and **autonomous content moderation**