# Sahil Atul Darandale

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## EDUCATION

**Binghamton University, State University of New York** — Binghamton, NY
*Master of Science in Computer Science* — *August 2022 – May 2024*

**University of Mumbai** — Mumbai, MH, India
*Bachelor of Engineering in Computer Engineering* — *August 2017 – May 2021*

## EXPERIENCE

**Associate Software Engineer** — July 2021 – July 2022
*Xoriant Solutions Pvt. Ltd.* — *Pune, MH, India*

- Enhanced application performance by 30% using React.lazy and Suspense for lazy loading, and minimized re-renders by 50% using useRef, useMemo, and memoization
- Orchestrated state management for 50+ components with Redux and improved navigation in multi-page apps using React Router
- Elevated server scalability with Express.js, boosting response times by 40% through caching, and slashing response size by 70% with compression and HTTP/2
- Streamlined microservice communication with gRPC and REST APIs, reducing payload size by 80% with protocol buffers. Simplified communication and data integrity by 50% with an API gateway and consistent data models

**Intern** — January 2020 – Feburary 2020
*Dezignolics Web & Software Company* — *Thane, MH, India*

- Augmented code readability and SEO by 20% with semantic HTML and SASS, and decreased load times by 30%
- Upgraded mobile usability by 50% with a mobile-first design and scalable units, optimizing performance by 40% through minimized HTTP requests and lazy loading
- Accelerated development time by 25% using Bootstrap's utility classes and grid system, increasing accessibility by 15% through comprehensive testing and Bootstrap features

## PROJECTS

**BiteStats - Ultimate DoorDash & Grubhub Expense Tracker**    https://github.com/SDev6699/bitestats

- Engineered API reverse engineering solutions using Chrome DevTools, analyzing over 10,000 orders from Grubhub and DoorDash. Constructed dynamic visualizations with Chart.js, revealing spending trends and top items
- Crafted a customizable dashboard with Material-UI, enhancing user experience with personalized widgets for total spend and order metrics. Optimized performance by 25% using efficient React.js components and state management

**WizardMail - AI-Powered Email Client**    https://github.com/SDev6699/WizardMail

- Developed AI-Powered Email Client by building an AI-assisted email client using React.js and Tailwind CSS, integrating CopilotKit for intelligent text suggestions powered by OpenAI API, enhancing email composition and reducing drafting time by up to 30%
- Implemented Secure Authentication and Email Management by integrating Google OAuth 2.0 with Passport.js for secure user login, utilizing Gmail API to fetch and manage over 10,000 emails in real-time, and employing Axios and React hooks for efficient data management and state handling

**PeerShare - A WebRTC-Based File Sharing Web App**    https://github.com/SDev6699/PeerShare

- Created "PeerShare", a WebRTC-based file-sharing web app utilizing Next.js, React, TypeScript, and Tailwind CSS for the frontend, and NestJS, Socket.io, and Redis for the backend, ensuring secure, real-time peer-to-peer file transfers with OAuth 2.0 authentication
- Designed and executed a responsive UI and efficient signaling for seamless user experience

## TECHNICAL SKILLS

**Languages**: Java 8, Python 3, JavaScript, TypeScript, EcmaScript 6, HTML5, CSS3, SQL
**Frameworks**: React JS, Node.js, Express, NextJS, Material-UI (MUI), Bootstrap 5, NestJS
**Developer Tools**: Git, Docker, AWS (Cloud Practitioner Certification), VS Code, PyCharm, IntelliJ, Eclipse, Firebase, OpenAI API, Nodemailer, Chrome DevTools, Gmail API, Google OAuth 2.0, Passport.js, API Gateway
**Databases**: Postgres, MySQL, MongoDB, Redis
**Libraries**: Pandas, NumPy, Matplotlib, Tailwind CSS, Zod, Chart.js, Socket.io, OAuth 2.0, REST API, GraphQL, CopilotKit, gRPC, Protocol Buffers