

# AKSHAY SHASHIDHAR NADIG

+1 (347)-495-2069 | [an4023@nyu.edu](mailto:an4023@nyu.edu) | [linkedin.com/in/akshaysnadig](https://www.linkedin.com/in/akshaysnadig) | [github.com/AkshayS-Nadig](https://github.com/AkshayS-Nadig)

## EDUCATION

**New York University**, New York, NY  
Master of Science, Computer Engineering

**Jan 2023 - Dec 2024**  
**GPA: 3.89/4.0**

## TECHNICAL SKILLS

Programming Languages: JavaScript, Python, TypeScript, C#, SQL, HTML/CSS, Java, PowerShell, C  
Frameworks: ReactJS, Angular, .NET Core, Node.js, Express.js, Material UI  
Tools: AWS, Docker, NPM, Git, GitHub, Postman, CI/CD, DevOps, Agile, Scrum, Oracle Data Modeler  
Certifications: Microsoft Certified Azure Fundamentals

## EXPERIENCE

**Troupe Health | Software Engineer Intern**, New York, NY (*React.js, Express.js, PostgreSQL, AWS*) **May 2024 - Aug 2024**

- Independently developed a fully scalable architecture using AWS EC2, API Gateway, EventBridge, and Lambda, SQS enabling real-time processing of thousands of webhook events from EHR systems with robust error detection and correction mechanisms.
- Engineered a comprehensive analytics platform with TypeScript, Express.js, React.js, AWS Aurora RDS, and Sigma Computing, providing detailed business insights and eliminating manual data maintenance and reporting tasks for Operations and Product teams.
- Enhanced PostgreSQL efficiency by designing high-performance functions, stored procedures, and indexing, boosting data processing speed by 60% and accelerating business insights.
- Aligned architecture with business goals by working with operations and product teams. Led integration discussions with vendors and medical tech manufacturers.

**NYU Langone Health | Graduate Assistant**, New York, NY (*C, Python, MATLAB*) **Apr 2023 - May 2024**

- Optimized a data processing DLL with OpenMP, applying compiler optimization techniques for a 12-fold increase in efficiency.
- Converted MATLAB algorithms to Python, leveraging CUDA and Numba for a 15x speed improvement through algorithms optimization.

**Wipro Technologies | Senior Software Engineer**, Bengaluru, India **Jul 2019 - Dec 2022**

**U.S. Bank's Freight Payment Application** (*ReactJS, ASP.Net Core Web API, Entity Framework Core, Microsoft SQL Server*)

- Migrated multiple legacy server-side applications to ReactJS-based SPAs with Context API, Redux and React Router, achieving a 62% uplift in user engagement metrics.
- Developed reusable React component libraries, using React Hooks to boost development agility and code consistency across projects.
- Enhanced SPA performance to effectively manage larger data volumes, reducing Time to Interactive (TTI) by 3 minutes.
- Engineered a SQL Dependency based controller to automate 90% of backend processing, adding notification and manual override features.
- Configured and managed Quartz.Net for job scheduling, streamlining task automation and improving backend system reliability.
- Proposed and consolidated diverse invoicing workflows, leveraging MS-SQL to reduce feature integration timeline by almost 50%.
- Implemented a systematic data archival tool using MS-SQL and .Net Core, boosting data read-write speeds by 300% across applications.
- Automated repetitive debugging and testing scripts with PowerShell, saving daily 2-3 hours of development time and project timelines.

**SPIN Tool** (*Angular, ASP.Net Core Web API, Entity Framework ORM, Microsoft SQL Server, Azure Speech to Text API*)

- Built a speech transcription and emotion recognition tool for Customer Care using Angular and .NET Core Web API, enhancing accessibility, and ensuring support staff safety.
- Deployed a Microsoft Azure-based chatbot, reducing helpline call volume by 30% through automated FAQ handling.

## PROJECTS

**TradeMatch** (*React.js, Java Spring Boot, PostgreSQL, Docker*) **Nov 2023 - Dec 2023**

- Led the development of TradeMatch's frontend using React.js, ensuring scalability and efficient deployment with Docker.
- Employed a Spring Boot for backend with PostgreSQL and Quartz for job scheduling, with multithreading for effective operation.

**Voyage Of Amusement** (*ReactJS, Node.js, Express.js, MySQL, Oracle data modeler*) **Apr 2023 - May 2023**

- Created a Disneyland-themed SPA with ReactJS, Hooks, and Material UI, integrating Stripe for flexibility in payment options.
- Engineered an individual and group ticket booking system using Express.js, MySQL enabling seamless online and offline transactions.

**Autonomous Mobile Payload Carrier Robot** (*C, C++*)

- Designed robust C++ control algorithms for an Autonomous Robot, utilizing OOPs and software design patterns for system efficiency.
- Integrated quadrature encoder and IMU data for precise navigation, developing algorithms to effectively compensate for drift and slippage.

## ACCOMPLISHMENTS & VOLUNTEERING

- Awarded "The Bright Beginner" at Wipro Technologies for exceptional performance.
- Recognized as a Top Performer with an "Outstanding Contribution" (5/5) rating for FY 21-22.
- Volunteered with Wipro Cares to revamp the STEM curriculum at two underfunded public schools, benefiting over 100 children.