

SHUBHAM GARG

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EDUCATION

New York University (NYU) – New York, NY August 2023 – May 2025
Master of Science, Computer Science | **GPA: (3.833/4)**

- Teaching Assistant (Java) at NYU Courant
- Related Coursework: Software Engineering, Information Visualization, Artificial Intelligence (AI), Computer Vision

Amity University – Noida, India July 2019 – June 2023
Bachelor of Technology, Computer Science and Engineering | **GPA: (9.05/10)**

- Microsoft Learn Student Ambassador, President Amity ACM Association
 - Related Coursework: Agile Development, Software Development Life Cycle, Data Analytics, Statistical Analysis
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TECHNICAL SKILLS

Programming Languages: JavaScript, Python, Java, .NET (C#), SQL, NoSQL, HTML, CSS, TypeScript, C/C++, Linux/Unix

Frameworks: React, Node.js, NextJS, Express.js, Django, Flask, .NET Core, Rest API, Kubernetes, Docker, Scrum, Sprints

Technologies: Git, DevOps, MongoDB, Redis, DynamoDB, Data management, EDA, Full Stack, S3, EMR, Lambda, PostgreSQL

Tools: Jenkins, SonarQube, Cloud Computing, Amazon Web Services, Microsoft Azure, Apache Spark, Kafka, GitHub, GitLab

Soft Skills: Communication, Resilience, Teamwork, Adaptability, Problem-Solving, Decision-making, Analytical

EXPERIENCE

- 1. Building Diagnostics Robotics** – New York | **Software Engineering Intern** July 2024 – December 2024
 - Led the end-to-end development of a scalable iOS application using React Native and Flask, for data processing and analysis.
 - Architected a serverless backend with AWS Lambda, Cognito, and API Gateway to support secure and efficient operations.
 - Led the setup of CI/CD pipelines using AWS, which streamlined the deployment process and reduced release cycles by 20%.
 - 2. Saxo Group** – Gurugram | **Student Intern** January 2023 – June 2023
 - Developed 20+ REST API endpoints using .NET framework and SQL stored procedures for Investment Banking applications.
 - Optimized workflow by integrating Azure DevOps for builds, SonarQube for code analysis and Confluence for documentation.
 - Debugged and deployed 2 trading applications and implemented .NET unit tests using NUnit, achieving 90% code coverage.
 - Automated PDF data extraction and Excel report generation using .NET and EPPlus, increasing operations efficiency by 30%.
 - 3. University of Essex** – United Kingdom | **Research Intern** – ([Code](#)) July 2022 – June 2023
 - Innovated a multimodal chatbot using GPT, RAGs and emotion recognition for real-time mental health assessment (< 1 second).
 - Engineered a Flask backend with 5 APIs for video processing, integrated computer vision, and stored results in MongoDB.
 - Developed a scalable React interface using Material-UI, deployed on AWS, and leveraged Docker for real-time assessment.
 - 4. Trident Group** – Ludhiana | **Software Development Engineer (SDE) Intern** May 2022 – July 2022
 - Created 4 web platforms using React, Node.js, Express.js and DynamoDB to streamline bedsheets and paper production.
 - Deployed REST APIs and DynamoDB for real-time inventory management, boosting operational efficiency by 20%.
 - Utilized Git, Azure DevOps, and Jest for CI/CD pipelines, automating tests and ensuring seamless deployment on Azure.
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PROJECTS

- 1. React Chat Application** (React, JavaScript, Firebase SDK, Netlify) – ([Code](#), [Website](#)) Fall 2023
 - Engineered a real-time chat app with authentication, real-time messaging, media sharing, and audio/video integration.
 - Deployed via Azure DevOps CI/CD pipeline, integrating SonarQube and Jest for automated testing and static code analysis.
 - Employed React Hooks and React state management for efficient state handling and dynamic updates on the frontend.
 - 2. Expense Tracker** (React, Node.js, Express, MongoDB, Netlify) – ([Code](#)) Spring 2023
 - Created an expense tracker to manage expenses with features for adding, editing, deleting, & viewing transaction history.
 - Implemented secure custom user authentication using JSON Web Tokens, React Cookies, Express.js, and bcrypt.
 - Built over 10 RESTful APIs with Express.js and managed data storage with MongoDB collections via Atlas and Mongoose.
 - 3. My Portfolio** (Django, HTML/CSS, JavaScript, Bootstrap, Heroku) – ([Code](#), [Website](#)) Spring 2023
 - Crafted a responsive portfolio website with Bootstrap, highlighting my skills; increased visibility by 40% within first month.
 - Coded the back-end using Django, incorporating SQLite for database and Django User Authentication for user management.
 - 4. E2E Chat Application** (Node.js, Express, Socket.io, Web Cryptography API) – ([Code](#)) Fall 2022
 - Developed a real-time chat application with end-to-end encryption, ensuring secure messaging between users in various groups.
 - Facilitated public key exchange, securing messages with encryption on the sender's side and decryption on the recipient's side.
 - Coded the back end on Node.js, Express, Socket.io, and Web Cryptography API for real-time and secure communication.
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CERTIFICATIONS

1. AWS Certified Cloud Practitioner
 2. Microsoft Certified Azure AI Fundamentals
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