

# Aashay Dharmesh Shah

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## EDUCATION

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**Stony Brook University**, New York

May 2025

Masters of Science in Computer Science

Overall GPA: 4.0/4.0

Courses: Data Structures, Algorithms Analysis, Operating Systems, Distributed Systems, Database Management, Cloud Computing, Software Engineering, Project Management

## SKILLS

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- **Languages:** Python, Java, SQL, HTML/CSS, JavaScript, XSL, Dart, Go, C, C++, LaTeX
- **Tools:** Spring, Node.JS, React.JS
- **Frameworks:** MATLAB, Git

## Experience

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**Oracle Financial Services Software**

Mumbai, India

*Software Developer*

July 2021 - July 2023

- Developed scalable web applications using Java and Spring framework, collaborating with UX designers and other developers to ensure pixel perfect solutions and modular, reusable components.
- Implemented microservices architecture using Java and Spring framework, contributing to the development of an eco-system of scalable microservices.
- Actively followed best practices and agile methodologies, participating in frequent code reviews and adopting continuous integration and delivery practices.
- Increased system security by implementing multi-factor authentication, OTP delivery via IVR call, and risk assessment tools, resulting in a reduction of fraudulent transactions by 60%.

**Arcon Tech Solutions**

Mumbai, India

*Software Engineer Intern*

June 2020 - August 2020

- Utilized Java and Python to develop web applications and integrate with web frameworks such as Django and Flask.
- Contributed to the creation of single page applications using JavaScript frameworks, such as ReactJS and ReactNative, ensuring responsive and compelling web experiences.
- Assisted in the design and development of a digitalized UI testing framework using Selenium and Java, ensuring seamless functionality of an access management system.
- Implemented interactive visualization dashboards in an admin portal, using Angular and SQL, resulting in streamlined access management processes and a 24% increase in client retention.

**Somaiya Vidyavihar University**

Mumbai, India

*Software Developer Intern*

January 2020 - May 2020

- Designed and developed a course allocation system using PHP and MySQL, streamlining the process by automating constraint-based allocation each semester.
- Collaborated with stakeholders to understand requirements and successfully implemented the system within the college portal.
- Reduced manual operations by 85%, improving efficiency and accuracy in course allocation.
- Actively maintained and enhanced the system, ensuring its stability and usability for multiple semesters.

## PROJECTS

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**Legal Epidemiology**

*Project Link:* N/A

- Present

- Automated the development of Geo Maps for US Counties with diverse data sets and patterns by leveraging React and JavaScript
- Improved AK Analyst's reliance on hard-wired data by extracting patterns to estimate the impact of legislation on opioid-related fatalities
- Utilized modern JavaScript libraries and frameworks like React to develop well-structured web applications
- Successfully contributed to the development of pixel-perfect solutions and modular, reusable components

**Predictive Analysis of Crowdfunding Platforms**

*Project Link:* N/A

- Present

- Devised classification and regression models to predict project success likelihood and estimate potential funding amounts for Kickstarter projects
- Implemented NLP techniques to assess project descriptions and recommend keywords for stronger project descriptions
- Improved Kickstarter success rate, currently standing at 30%, by constructing APIs and utilizing machine learning algorithms

- Demonstrated proficiency in data analysis and modeling, contributing to the overall success of the project

**Flusion**

*Project Link:* N/A

- Present

- Built a scalable e-commerce mobile application using Flutter and Dart, integrating APIs and implementing caching techniques
- Optimized application performance by 35% through effective caching and reduced API calls
- Managed real-time data of over 10,000 products, user details, payment information, and inventory using efficient Firebase Schemas
- Reduced manual tasks by 25%, resulting in improved efficiency and streamlined processes