

Vikram Choudhary

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EDUCATION

Binghamton University, State University of New York, Thomas J. Watson College of Engineering and Applied Science

Master of Science in Computer Science

Expected May 2025

Cumulative GPA: 3.52/4.00

Relevant Coursework: Intro to Artificial Intelligence, Design Patterns, Programming for the Web, Distributed Systems

Fr. Conceicao Rodrigues Institute of Technology, India

Bachelor of Engineering in Information Technology

May 2017

Relevant Coursework: Object-Oriented Programming (OOPS), Data Structures & Algorithms, Software Project Management

TECHNICAL SKILLS

Languages: JavaScript (ES6+), TypeScript, HTML, CSS, PHP, Java, Python, C, C++

Libraries & Frameworks : Next, React, React Native, Redux, Sass, Babel, BackboneJs, JQuery

Tools & Platforms : Git, GitLab CI/CD, VSCode, Eclipse, Webpack, Figma, Drupal, WordPress

Databases & Cloud: MySQL, MongoDB, AWS, Azure, Google Cloud

Certifications: Python, Python for Data Science and Machine Learning by Udemy

PROFESSIONAL EXPERIENCE

SUNY Research Foundation, Research Project Assistant | Binghamton, NY

May 2024 – Present

- Streamlining e-purchase order management processes by integrating new functionalities and features, resulting in a 90% increase in administrative task efficiency and saving an estimated 450+ hours annually
- Pioneering and executing cron jobs to automate email and user status, reducing manual intervention by 100% and saving approximately 100+ hours annually

Truelancer (Infosys), Front End Developer | Bengaluru, India

December 2021 – August 2023

- Contributed to the development of an omni-channel marketing platform for B2B, within the Infosys/Apple partnership
- Designed and integrated critical data collection components, facilitating data-driven decision-making in lead flows and campaign performance monitoring
- Upgraded codebase from BackboneJs to ReactJs, fabricated reusable components for consistent customer outreach across multiple channels and achieved a 35% performance and user experience improvement

Sunday Tech, Frontend (ReactJs) Developer | Mumbai, India

March 2021 – February 2022

- Redesigned and developed frontend visualization and data representation components to enhance data visualization and support precise cost estimation, contributing to enhanced decision-making processes
- Collaborated closely with three cross-functional teams for innovative design elements and optimizing the application's usability
- Integrated the UI/UX features, enhancing overall usability and functionality, while reducing sensor tracking and monitoring latency by 60%
- Achieved a remarkable 40% reduction in operational costs and securing an additional two projects from our valued clients

Tata Consultancy Services (Wells Fargo Iremarket), Full Stack Developer | Mumbai, India

September 2017 – April 2020

- Collaborated on two client projects, ensuring a seamless integration of client needs and project objectives
- Evaluated client requirements, with a strong focus on data-driven user interfaces and intricate data representations
- Customized application-level code to establish seamless interaction with REST APIs, prioritizing user experience enhancements and improved application performance

PROJECT EXPERIENCE

Lending Library, Web Developer | Binghamton, NY

January 2024 – April 2024

- Practiced Test-Driven Development(TDD), writing comprehensive unit tests using Jest to ensure code correctness and reliability
- Designed and implemented an in-memory indexing scheme to optimize data retrieval and management, enhancing performance
- Developed a custom API for abstract database interactions, promoting modularity and code reusability

Solving Pac-Man Using Approximate Q-Learning, AI Project | Binghamton, NY

October 2023 – December 2023

- Developed an AI-driven Pac-Man game, employing approximate Q-Learning for real-time learning and decision-making
- Utilized reinforcement learning techniques, including Markov processes and hidden Markov models, to improve AI performance in dynamic environments

WAREX - Redesign Your Supply Chain, Lead Front End Developer (Freelancing) | Remote

March 2023 – August 2023

- Led a team of four professionals in a web app project, prioritizing on-time delivery and efficient client requirement gathering
- Collaborated with the product owner to refine product design and identify crucial platform services, enhancing overall user satisfaction by 25% and securing a 50% boost in user retentions

PUBLICATIONS

Ayaz M., Kundan S., **Vikram C.**, Rajkumar M., Aaqib K., Dhanashree H. (2017). Augmented Reality Tensor (ARTensor)/ICATE - 2017 Page #210 ISBN: 978-93-86171-02-3

<https://svv-research-data.s3.ap-south-1.amazonaws.com/160982-Final%20Proceeding%20-%202027-4.pdf>