

# VISHAL DHATRIKA

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## EDUCATION

**University of Missouri - Kansas City**  
Master's, Computer Science

**May 2024**  
GPA: 3.8

## PROFESSIONAL EXPERIENCE

### UMKC Academic Support and Mentoring

Computer Science Tutor

**Kansas City, MO, USA**

January 2024 - May 2024

- Mentored 25+ undergrad CS students in Problem Solving, Programming (Lab & Theory), Discrete Structures, Blockchain, Networking, Algorithms, Data Science & Databases, boosting appointments by 30% & project completions.
- Improved student understanding of programming concepts, as evidenced by consistent 5/5 ratings for effective teaching methods.

### Epam Systems

Pre-Education Programme Trainee

**Remote**

September 2020 - June 2021

- Demonstrated excellence across 11 technical tasks and gained expertise in Software Engineering technologies including Maven, Git, Core Java, Design Principles and Patterns, Manual and Automated Testing, and Front-end development during EPAM Systems' pre-education program.

### UMKC Writing Studio

Writing Consultant

**Kansas City, MO, USA**

August 2023 - May 2024

- Guided PhD students through complex dissertation writing stages, resulting in multiple successful defenses. Equipped undergraduate students with essential academic writing skills, leading to an average 10% increase in research paper grades.

### UMKC Campus Recreation

Fitness Center Attendant

**Kansas City, MO, USA**

April 2023 - January 2024

- Enhanced member experience at UMKC's 7,000 sq. ft. fitness center through equipment upkeep & a safe, clean environment.

## PROJECTS & OUTSIDE EXPERIENCE

### BlockCertify - [Link to project](#)

July 2021 - July 2022

Developer

- Developed a tamper-proof and transparent system for verifying educational certificates and legal documents using blockchain technology, achieving trust in credential validation.
- Ranked 1st amongst 20+ competitors at the school's annual final undergraduate project symposium, impressing 10+ faculty members and 2 potential investors.
- Generated certificates in nearly 3 minutes, 85% lesser time compared to hard-copied documents.

### Cuisine Haveli - Restaurant Website - [Link to project](#)

April 2020 - December 2021

Full-stack PHP Developer

- Produced PHP, Bootstrap, and responsive LAMP stack web application to cater marketing, e-commerce, delivery, table booking and catalog management, user accounts.

### Meme-ory Game - [Link to project](#)

June 2024 - June 2024

React Developer

- Built an accessible (92 on Lighthouse Accessibility audit) and performant (20% increase in Lighthouse mobile score) cross-device Progressive Web App (PWA) using React & Typescript for 'Meme-ory Game', ensuring a seamless user experience across devices.

### Mills Nine Men's Morris Game - [Link to project](#)

August 2023 - December 2023

Developer

- Deepened skills and pursued SDLC, Agile principles and practices by developing a Nine Men's Morris desktop game employing Java, OOP concepts, Swing.
- Debugged and implemented a comprehensive JUnit 5 test suite with 20+ unit tests covering core functionalities like move validation, turn management, and win conditions.

### Prediction and Analytics of Sales of Products by Outlets - [Link to project](#)

January 2023 - May 2023

Machine Learning Engineer

- Accomplished the development of regression based machine learning models using Python and R, harnessing the power of packages such as Pandas, NumPy, and Matplotlib for comprehensive data manipulation, analysis, and visualization.
- Implemented an Artificial Neural Network and reduced Mean Absolute Error by 23% compared to other models.

### Self-employed - [Link to project](#)

January 2020 - Present

Freelance Web Developer

- Designed a responsive, user-friendly portfolio using HTML, CSS, Bootstrap, and JavaScript, enhanced interactivity with via Glide.js.
- Ensured cross-browser compatibility and mobile responsiveness, improving load times and user engagement.
- Applied SEO best practices, boosting site visibility, and continuously updated content with new projects, skills, and blog posts.

## TECHNICAL SKILLS

AWS, CAD, Computer Networking, Data Analysis, Data Science, Data Structures & Algorithms, Graphic Design, Git, HTML/CSS, Java, C/C++, Python, Web Development, AutoCAD, Communications, Excel/Numbers/Sheets, Blockchain, Ethereum Virtual Machine (EVM), Node.js, React.js, C#, R, RDBMS, MySQL, SQL, MongoDB, PHP, Solidity, CSS, HTML, ES6, Bootstrap, Pandas, Tailwind, NumPy, Seaborn, Hadoop, Swing, Ethereum, Linux/Unix, JUnit, CI/CD, JavaScript, TypeScript