KESHAV BHAGAT

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EDUCATION

University of Michigan, Ann Arbor, MI **Ann Arbor, MI**
BS in Computer Science, Minor in Business *May 2026*

- **GPA:** 3.853/4.0
- **Relevant Coursework:** Introduction to Operating Systems, Database Management Systems, Web Systems, Intro to Artificial Intelligence, Data Structures and Algorithms, Foundations of Computer Science, Computer Organization

SKILLS

Languages & Frameworks: C++, Python, Java, JavaScript, React, Remix, Next.js, Node.js, Express, Redux, HTML/CSS
Tools & Databases: Git, AWS, VSCode, Xcode, Postman, MySQL, MongoDB, MySQL, Prisma, Stripe, Microsoft Office

WORK EXPERIENCE

Dream11 **Mumbai, India**
Software Development Intern *June 2024 – July 2024*

- Developed a comprehensive release management website using Remix as full-stack framework with Prisma ORM and MySQL, facilitating tracking and creation of Dream11 app releases with detailed build history and release information
- Designed and implemented the frontend with Remix and React, incorporating Shadcn, Tailwind CSS, and various custom hooks to create dynamic and user-friendly components, enhancing the user experience
- Executed test cases using Callstack's Reassure to evaluate the functionality and performance of custom React Native components, ensuring adherence to baseline metrics

Web Spiders **Kolkata, India**
Software Engineering Intern *June 2023 - July 2023*

- Built "EmpowerMeAI", a job-seeking and career-advising chatbot tailored for job seekers in Kolkata, powered by the GPT-3.5 turbo 16k model
- Engineered the application in Python with an intuitive CLI interface, harnessing Glassdoor and Indeed APIs to dynamically fetch job listings based on users' skills and expectations

EXTRA-CURRICULAR ACTIVITIES

Michigan Data Science Team **Ann Arbor, MI**
AI/ML Engineer *Aug 2023 – Nov 2023*

- Programmed an AI Poker bot in Python using packages like NumPy, Panda, and Matplotlib
- Used pre-existing poker engine RLCard and trained the bot using Deep Q-Learning (DQN) and Deep Monte Carlo
- Employed Neural Fictitious Self-Play to optimize training, determining a replay memory size (number of experiences stored in memory) of 20,000 and training the DQN every 4 iterations to be optimal
- Achieved an average increase of 9% in money after 100 iterations of the game against a random agent

PROJECT EXPERIENCE

DealDepot *May 2024 – June 2024*

- Developed a fully functional e-commerce website using the MERN stack (MongoDB, Express, React, Node.js)
- Implemented features including pagination, product filters, and a checkout process using Stripe for secure payments
- Created an admin dashboard for managing products, orders, reviews, and users, and integrated sales charts for analytics

Search Engine Clone *April 2024*

- Built a scalable search engine using Python's Flask and SQLite that mimics the functionality of leading search engines
- Created a dynamic search server that leverages a service-oriented architecture to support scalable web search and focuses on advanced information retrieval concepts like text analysis and link analysis
- Developed a segmented inverted index of web pages utilizing a pipeline of MapReduce programs, enhancing parallel data processing efficiency, and built an Index server with a REST API returning search results in JSON

Instagram Clone *Jan 2024 – Feb 2024*

- Engineered a client-side dynamic Instagram clone utilizing React and Jinja, deploying the application on AWS EC2
- Created and maintained a scalable REST API using Python's Flask and SQLite, enabling efficient data handling and seamless communication between the frontend and backend components

Piazza Post Classifier *March 2023 – April 2023*

- Developed a program in C++ to automatically classify the subjects of Piazza (Q&A web service) posts
- Trained the Multivariable Bernoulli Naive Bayes' NLP Classifier model using log-prior probability scores, achieving an accuracy of 87.1% when predicting the subjects of 3000 posts