

KARTAVYA SINGH

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EDUCATION

University of Cincinnati, Cincinnati, OH

Bachelor of Science in Computer Science

Master of Engineering in Computer Science

Cumulative GPA: 3.73 /4.00

Expected Graduation: May 2026

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Relevant Coursework: AI & ML, Parallel Computing, Computer Networks, Adv. Data Structures, Software Testing & Quality Assurance

Awards and Honors: University Honors Program | Future of Data Hackathon “Best Finance Software” and MakeUC Hackathon “Best Use of AI” Prize; Named in UC’s dean list for Fall’21-23, Spring’22-24 for academic excellence; Certified for learning foundational AI

Leadership Involvement: Bearcat Tech Innovators (VP & Tech Track Chair) | **UC Learning Commons** (SRS Leader & MASS Tutor)

WORK EXPERIENCE AND INTERNSHIP

Live Well Collaborative | Computer Science Co-op | Cincinnati, OH

Jan 2025 – May 2025

Projects: Council on Aging (Blue Ash, OH) | Procter & Gamble (Cincinnati, OH)

- Spearheaded development of a seamless dynamic multi-modal data stream LLM chatbot as a full-stack application featuring a research repository spanning over 5 years of projects – ultimately boosting team productivity & streamlining onboarding for future peers
- Leveraged Flask backend integrating 65+ APIs for user authentication and sponsor-project LLM junction, React and Tailwind CSS for a fluid user experience, and AWS Relation Database Service (RDS) PostgreSQL for secure user, sponsor, and project data storage
- Co-Created Interactive AI Personas for P&G, deepening my prompt engineering expertise and contributing to innovative research while thriving in a collaborative team environment. Assisting P&G with its secondary research and future onboarding
- Ideated key automation opportunities using Power Automate and Microsoft Dynamics Processes by conducting comprehensive workflow analysis, implementing process optimizations to effectively streamline COA’s workflow

iCDCU Lab | Python/Flask App Developer | Cincinnati, OH

May 2023 – Aug 2023

- Led the development of dynamic webpages for ResDash Project using HTML, CSS, Python, & JavaScript, resulting in successful launch of the first website ensuring an enhanced user experience for over 700 University of Cincinnati Resident Doctors
- Streamlined codebase by eliminating redundant segments and implementing reusable components across the entire project
- Integrated D3, Flask, Django, Flask Breadcrumbs, and Bootstrap, streamlining the efficiency of the optimized application by 45%

Byte Links Systems | Data Science Intern | Houston, TX

May 2022 – July 2022

- Built and deployed PowerBI dashboard to analyze the global growth pattern of Pneumonia, identifying major causes and conducting city-wide, country-wide, and continent-wide spread analysis using various Machine Learning
- Enhanced Python proficiency by specializing in Lists, Dictionaries, NumPy, Pandas, Matplotlib, Seaborn, Hive, Flask & Django
- Expanded expertise in Machine Learning algorithms, including Supervised/Unsupervised Machine Learning, Logistic Regression, Gradient Boost, and Neural Networks utilizing SQL, PowerBI, Tableau, PySpark achieving 20% increase in prediction accuracy

PROJECTS

FinVest: Future of Data Hackathon (2024) | Best Finance Software (Fintech)

Aug 2024 – Sept 2024

- Spearheaded "FinVest", VR financial platform using Unity, C#, and .NET for financial planning and equity portfolio education
- Integrated Alpha Vantage API to track real-time data for over 15,000 stocks, Plaid.NET API connecting 3,000+ financial institutions, and SQL for secure user authentication with IndexedDB for robust transaction management and data safety
- Visualized 10+ unique 3D Charts and Graphs using Chart.js and Plotly, enhancing user interaction with dynamic financial insights

BearChat: Revolution UC Hackathon (2023) | Best Use of Google Cloud API

Jan 2023 – Feb 2023

- Created "BearChat", an intelligent voice assistant specifically designed for University of Cincinnati students, Integrating Google API to extract weather, time, user location data, text-to-speech, and to pinpoint every building in 2-mile radius of University of Cincinnati
- Utilized TensorFlow's Deep Neural Networks (DNN) in Python to achieve over 95% accuracy and synergized HTML/CSS for the frontend with secured Flask-based backend connectivity, while developing the first virtual assistant application at UC
- Demonstrated expertise in Machine Learning, Deep Learning, Natural Language Processing (NLP), and Web Development

SKILLS

Computer Languages/Frameworks/Libraries/OS, Verbal, And Critical Thinking

- Proficient in JavaScript, Python, C#, C++, C, React, MongoDB, Express, Flask, GraphQL, TensorFlow, OAuth, Tailwind CSS, Framer Motion, GSAP, Reast Spring, AWS Relational Database Service (RDS) PostgreSQL, NoSQL, DynamoDB, TypeScript, D3.js, Docker, ASP.NET, JUnit, Spring Boot, PowerBI, Data Structures Algorithms, Discord.js/.py, PyTorch, Reinforcement Learning, NLP, Hindi
- Intermediate in Rust, Go, CUDA, Unity, Assembly, Figma, Selenium, Kubernetes, Azure, OpenCV, GitLab, Next.js, PySpark, Google Cloud, Deep Learning Architectures, LabView, NumPy, Pandas, Matplotlib, Kali Systems, Tableau, Django, French, Japanese, Arabic
- Beginner’s level in Quantum Cryptography/Computing, AutoML, Vanilla-JS, Jenkins, Swift, XML, Hive, VR/AR

Available for CO-OP/Internship Opportunities for Summer 2025 (May 2025 – August 2025)