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Aryan Kamath

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EDUCATION

University of Michigan, College of Engineering — Ann Arbor, MI
Bachelor of Science in Computer Science, Minor in Mathematics; GPA: 3.6/4.0 — *Sep 2020 – May 2024*
- **Relevant Courses:** Machine Learning, Computer Vision, Data Structures and Algorithms, Web Design, Probability & Statistics, *Computer Organization, *Mathematics in Finance (* in progress)
- **Organizations:** Kappa Theta Pi – Professional Technology Fraternity, Quantitative Consulting & Finance Group (QCF), Indian American Student Association (IASA)

EXPERIENCE

Circlebase: Intelligent Health Outcomes — Bengaluru, India
Software Engineering Intern — *May 2022 - Jul 2022*
- Developed a highly contextualized chat bot using open-source conversational artificial intelligence (RASA)
- Built Python scripts to perform tokenization, clinical entity extraction, and relationship mining
- Trained the custom named entity recognition model on over 30,000 medical records in company database
- Deployed chat bot, which resolves around 2,000 queries/day, reduces dependency on human agents, and improves help desk productivity by 60%

Quantitative Consulting & Finance Group — Ann Arbor, MI
Software Development Team Lead, Vice President of Consulting — *Jan 2022 - May 2022*
- Managed developer team and facilitated client (Heartland Consulting Group) communication for project
- Parsed through 40+ RSS feeds and populated a database on MongoDB using a Python script hosted and ran on an AWS Elastic Beanstalk server
- Implemented NodeJS backend using a WebSocket to send requests to the Binance API and push retrieved data to a frontend that visualizes a candlestick graph displaying live time series crypto data

MachineTools.com — Birmingham, MI (Remote)
Data Engineering Intern — *May 2020 - Aug 2020*
- Scraped company web pages for employee contact information utilizing Python libraries, Selenium and bs4
- Automated company's contact retrieval process, collecting over 6,000 contacts through internship duration

PROJECTS

Crypto Trading Bot
Built using Python with Python-Binance and Tkinter libraries — *Aug 2022*
- Constructed pipeline for gathering market data via crypto exchange APIs (Binance, BitMEX) for subsequent use in back testing and paper trading various strategies to employ in crypto coin market
- Integrated paper trading system into GUI to display trades and relevant market information, eliminating need to interact with online crypto exchange servers

Dog Breed Classifier
Built using Python with PyTorch library — *Apr 2022*
- Designed a convolutional neural network to classify sample dog images by breed which was trained on over 12,000 PNG image files and yielded an accuracy of 75.09%
- Experimented with data augmentation techniques (image rotation, grayscale) which reduced the inherent training data bias, causing an increase in classification accuracy

SKILLS

Technical: Python (NumPy, BeautifulSoup, spaCy), C++, Java, JavaScript, HTML/CSS, SQL

Interests: playing poker, performing arts (acting, dancing, karaoke), attending stand-up comedy shows