Ramkumar Rathi

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SKILLS

- C++, Python, DSA, Operating systems, Deep Learning, Docker, Flask, Web Development

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EXPERIENCE

Software Engineering Intern
May-July   2020

Microsoft, Hyderabad

Worked in the Cloud + AI division of Microsoft, developed a certain feature in the Sales CRM to help automate processes for the client, and provide a better experience using automation and integrating machine learning for emails.

Machine Learning Intern
May-July   2019

Shyena Tech Yarns, Pune

Primarily worked on creating an automatic billing system for a client. Worked on face and food recognition, which then would automatically bill the given customer without any human intervention. Used Python, Flask, TensorFlow and Keras.

Founder – Zoned Out Music
2018

Founded talent management service that contracted amateur musicians and provided them with platforms to show case their talent such as shows and studio recordings. We also contract musicians to play at various events, openings, shows, etc. as per requests from third parties such as hotels and event managers

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EDUCATION AND AWARDS

Manipal Institute of Technology, Manipal - *Computers and Communication Engineering 2017-21*

CGPA: 8.32

Activities in college -

Head of System administration and Web development: *In charge of all the portals and websites used in the college fest, catering and used by 7000+ active users, handled a team of 12 developers.*

Vice President of IECSE Manipal: *The official computer science club on campus with over 4000+ members, holding various events and teaching at workshops.*

IIM Bangalore Young Leaders Summit: *One of the few students selected for the summit, worked on a case study exploring the growth of Patanjali as a company. Gained knowledge on various topics like communication for leaders under IIMB Professors*

PROJECTS

1. **Cognitive Search Engine:** A Micro service architecture based search engine for all your personal data. Makes videos, files, pictures, and basically any other data that you consume, search index able (using deep learning). Made a custom ranking algorithm to rank search results. Redis servers and Docker used to aide in the working.

2. **Virtual Food Token System:** Created and implemented a system which eliminated the need for physical food tokens during college fests. Tokens could easily be transferred from one person to another using a built in QR code generator and scanner, and also could be redeemed at the cafeteria when the clerk scans the QR code. A total of 3800+ tokens, worth over Rs.1,90,000 was handled by this web app.

3. **<u>Algorithmic stock trading bot</u>:** High frequency stock trading algorithm that trades stocks in real time according to predictions made by neural network models and the current user risk factor. System was tested by simulating over 1 year of trading with 1,00,000+ transactions

4. **<u>DNA Compression algorithm</u>:** DNA file compressor which improves upon normal Huffman compression by implementing a layer of neural networks before it.

5. *And many more*