

Ajay Wayase

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EDUCATION

Masters in Computer Science

December 2023 (Expected)

University of California, Riverside — GPA: 3.88

Riverside, CA

Courses: Advanced Operating Systems, Data Mining Techniques, Spatial Computing, Cloud Computing & Cloud Networking, Information Retrieval & Web Search, Principles of Distributed Computing

Bachelor of Computer Science

April 2020

University of Pune (SPPU) — GPA: 3.92

Pune, India

Courses: Advanced Data Structures, Data Structures & Algorithms, Design & Analysis of Algorithms, Machine Learning, Object Oriented Programming, Database Management Systems, Distributed Systems, AI, Computer Security

TECHNICAL SKILLS

Programming Languages: Python, JavaScript, C++, Java, TypeScript, MySQL, MongoDB, HTML, CSS, SQL Server

Frameworks & Libraries: ReactJS, Angular, Node.js, Django, Flask, Pandas, NumPy

Developer Tools: Docker, Git, JIRA

Other: Data Structures & Algorithms, System Design, Unit Testing, MATLAB

EXPERIENCE

Software Development Engineer

November 2020 – June 2022

Rakuten Symphony

Indore, India

- Developed 10+ **Front-end** modules for features such as chats and calls for client side web-app using **JavaScript Framework Angular** and **ElectronJS** for coordinating with **cloud-native 5G network**
- Developed and maintained **Typescript SDK** for calling features based on **WebRTC** and **REST API** Signalling
- Collaborated in an **Agile** development Environment with **Cross-functional teams**, including Project Manager, Solution Architect, designers and developers to develop LINK application in team of 24 engineers
- Led a Development Team** to kick off the front-end development of SENDY application project from scratch
- Leveraged architectural expertise in **ReactJS** to deliver a mature **architecture design** for new ReactJS application development from scratch
- Implemented Proof of Concepts and its **UI/UX** using React.js, Redux and **ES6 JavaScript** for user authentication, file uploading to cloud, file downloading from cloud, etc. to share files through **sendy cloud**

PROJECTS

Container Warm-up to Avoid Cold Start with Kubernetes & Knative 🔗

January 2023 – March 2023

- Enhanced container startup time by a factor of 4 by implementing strategies to keep containers warmed up during periods of no processing
- Leveraged advanced techniques such as **CronJob scheduling**, **Image Caching**, and **SARIMA Time Series Forecasting** to proactively maintain container warmth and minimize cold start times

Web Data Crawling & Search Engine 🔗

September 2022 – December 2022

- Developed a robust server side **search engine** application specifically designed for browsing layoff-related news articles using **Python framework FLASK**, employing algorithms such as **BERT** and **Elastic-Search**
- Crawled and processed approximately 1 GB of data from multiple websites, ensuring a comprehensive and diverse collection of information for optimal search results within the search engine

CCTV Surveillance using Image Processing 🔗

June 2019 – April 2020

- Designed system** and built a smart surveillance system using **ReactJS**, **Python** and **flask** to track the selected person by algorithmically displaying the CCTV camera footage in which the person is visible
- Executed face recognition by using **Independent Component Analysis** with the **Fuzzy Least Square Vector Machine** with the accuracy of **97%**
- Optimized data storage** by around **25-35%** using technique of deleting the same adjacent frames. Also implemented the application of automatic attendance system

Helping Hands 🔗

December 2018 – March 2019

- Created a website with an application architecture as a **Full Stack Developer** using **Angular** and **Django** to match volunteer writers for exams with disabled students
- Processed characteristics like distance from exam center, availability, languages known, etc. for deciding writer

ACHIEVEMENTS

Third rank at UCRPC, a coding competition out of **150 teams**

2023

Runner-Up at Smart India Hackathon out of **120 teams** (Helping Hands)

2020