Sanket Ravindra Chaudhari

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• https://sanket-rc.github.io/Sanket04.cv/ • https://github.com/sanket-rc

EDUCATION

Masters, Computer Science **Jan 2022 - Dec 2023**
• Arizona State University, Tempe, AZ, USA 4.0 GPA
• Foundations of Algorithm • Cloud Computing • Data Visualization • Software Security • Distributed Database Systems • Mobile Computing • Introduction to Human Computer Interaction

Bachelor of Technology, Electronics and Telecommunication **Jul 2015 - May 2019**
• Veermata Jijabai Technological Institute, Mumbai, MH, India 7.87 GPA
• Data Structures • Computer Communication Networks • Java • C++ • Pattern recognition • Digital Image Processing

TECHNICAL SKILLS AND INTERESTS

- **Programming Languages**: Java, C++, Python, C#
- **Web Technologies**: JavaScript, TypeScript, HTML, CSS, Bootstrap, Figma
- **Frameworks**: Spring, Angular, Apache Camel, Hibernate, Spring Boot, React, D3.js, JPA, Junit, Jasmine
- **Databases:** Oracle SQL Developer, MySQL, MongoDB, DynamoDB, SQL Server
- **Others:** AWS, Android Development, Git, Ubuntu, Bitbucket, Kafka, Bamboo, Docker, Maven, Terraform, IBM Websphere

WORK EXPERIENCE

American National Insurance Company, Tx, USA **| Agent Websites Summer Intern** **Jun 2023 – Present**
- Spearheaded the migration to transition the existing ASP.NET C# codebase to Java-based technologies, such as Jersey for **RESTful APIs**, **EJBs**, and **IBM WebSphere** ensuring seamless integration with existing systems and databases.
- Designed and developed a user-friendly interface using **Angular 13**, empowering agents with a comprehensive platform to record and manage customer notes at various stages of interactions.
- Simplified development and maintenance of Java Batch programs employing **Restful APIs.**

CitiusTech Healthcare Technology, Mumbai, India **| Full - Stack Engineer** **Jun 2019 – Dec 2021**
- Designed several Java interfaces using **Apache Camel** and **Spring Boot** frameworks to manage flow of data between systems, **HealthRules Payer** applications, and data stores, utilizing both inbound and outbound processes.
- Optimized queries and stored procedures for faster execution of batch processes from 8 hours to 15 minutes.
- Deployed **Apache Kafka** messaging system as a replacement for **ActiveMQ** in the application.
- Presented a POC demonstrating the advantages of **Camel Junit test** cases to the client as a part of 110% initiative.
- Developed multiple screens for the Angular application, ensuring compatibility with various browsers, including Internet Explorer 11 and Microsoft Edge, and contributed to accelerating lagging unit test cases.
- Collaborated in an internal initiative to create a library of robust UI components exploiting **Angular Elements**, intended for reuse within the organization.

ACADEMIC PROJECTS

Autoscaling Machine Learning applications using AWS cloud **Sept 2022 – Oct 2022**
- Architected and built scalable image recognition applications that efficiently utilize IaaS cloud resources, including EC2, S3, and SQS, to dynamically scale as per demand, resulting in improved efficiency and cost.
- Utilized the scalability of 20 EC2 instances to classify 100 test images in under 2 minutes.

PEARL: Personal Emotion Analysis, Reasoning, and Learning tool **Aug 2022 – Oct 2022**
- Developed PEARL, an innovative emotion analysis tool which utilizes timeline-based tweet data to provide interactive insights into a person's emotional patterns derived from their social media text for 10 different users.
- Plotted numerous visualizations for the tool employing **JS** and **D3.js** including Stream graph, Marimekko chart, Word Cloud, Circle Packing, Pie Chart, Area Chart, and Line Chart.

Recognition and Classification of handwritten digits using an Android Application **Aug 2022 – Oct 2022**
- Designed and developed an Android application that empowers users to capture images of handwritten digits on mobile devices and instantly upload the images to a server.
- Implemented a Flask server to integrate a state-of-the-art deep learning framework trained on the widely recognized MNIST dataset to place the classified digits in the respective folders.

Distributed Blockchain based Peer to Peer Communication between PMUs **Aug 2018 – May 2019**
- Redesigned contemporary power systems based on SCADA to enable real-time monitoring and correction leveraging a blockchain-based solution, enhancing the system's efficiency and accuracy.
- Increased energy efficiency by 23 percent exploiting a robust working mechanism (Proof of Authority protocol) compared to standard Bitcoin blockchain (Proof of work protocol).

AWARDS & EXTRA CURRICULAR ACTIVITIES

2023-2024: Volunteer at **Garden Kids of Kemah, Texas, USA**
2022-2023: Graduate Student Assistant for course **CSE- 301**: Computing Ethics
2021-2022: Received a **Certificate of Appreciation** for enhancements done in the HRP Project.
2018-2019: Captain of V.J.T.I Basketball Team
2018-2019: Selected to attend a semester-long sit-through course on **Introduction to Bitcoin** at IIT Bombay
2016-2018: Volunteer at **Robin Hood Army, Mumbai, India**