SUNDAR SARAVANAN

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Education

State University of New York at Binghamton, New York *Expected Aug '23*
Master of Science in Computer Science

Anna University, India *May '18*
Bachelor of Engineering in Computer Science and Engineering

Technical Skills

Languages and Databases - Python, JavaScript, Java, MongoDB, MySQL, Redis

Frameworks and Tools - NodeJS, AngularJS, ExpressJS, Flask, Flutter, Git, Docker, Google Firebase

Certifications - Certified Scrum Master from Scrum Alliance, Data Science Using R from EMC[2]

Others - Agile, Cloud, CI/CD, Data Structures, Load Balancing, Mobile Apps, Scalability, Unit Testing, Version Control

Professional Experience

Application Developer @ University of Pittsburgh | Contractor | Remote, US *Mar '23 - Present*
- Enabled professors to assess undergraduate engineering team performances based on diversity index calculated from student attributes by building a mobile application (Android and iOS versions) from scratch using Flutter
- Architected an scalable app solution that enables collection of encrypted data from students and calculate diversity metrics

Software Engineer @ ServiceNow Inc. | Hyderabad, India *Jul '20 - Dec '21*
- Contributed to 3 family releases of the Field Service Management product by successfully delivering stories to improve 4 modules within the proprietary framework with less than 10% defects and automation failures
- Built a live agent tracking feature by integrating Google Maps API with the internal java and javascript libraries in collaboration with various stakeholders and becoming a point of contact to expand it to other products
- Received UTG LLAMA award for outstanding contributions and achievements within the product organisation

Software Engineer @ Shakthi Inc. | Remote | Early stage startup *Jul '19 - Jun '20*
- Enhanced product resiliency by implementing replication and sharding in MongoDB and load balancing using NginX
- Increased stability of the code base by instituting a CI/CD pipeline for automated deployment of everyday builds to the production environment after executing unit and integration tests with minimal manual intervention
- Managed the application server infrastructure on AWS to make it highly available and scalable

Member of Technical Staff @ Zoho Corporation | Chennai, India *Jul '18 - Jun '19*
- Implemented 2 new and maintained 6 existing functionalities related to MySQL database within the proprietary framework that handles the product deployment in a cluster of servers based on the specified configuration
- Enabled software process to audit changes made to a product's deployment configuration overtime and store them historically in an incremental data structure by effectively participating in planning and code reviews

Software Engineering Intern @ Zoho Corporation | Chennai, India *Mar '18 - Jun '18*
- Developed a chat bot using Zoho's Deluge scripting language for responding to frequently asked questions related to the internal framework which led to offsetting more than 60% of the support team's work load
- Devised a process to trigger an automatic mail from the user to the support team for questions not found in the system

Independent Projects

Stock Market Data Analysis and Trading [Graduate] *Jan '22 - Present*
- Developed application micro services with a streaming data pipeline service that receives realtime data from stock exchanges and a handler service that takes care of placing trade orders
- Devised algorithms to identify high quality trade signals by using scraped data from various sites
- Established a protected Redis layer for faster access of data between the servers for quicker decisions

Parallelised High Throughput Web Scraping [Graduate] *Jan '22 - Mar '22*
- Implemented a single server, multiple client architecture to distribute the web scraping process to the personal computers by connecting themselves to the server when enough idle computing power is available
- Achieved a high throughput while saving 75% in infrastructure costs and optimising the available resources

Resource Management Tool [Undergrad] *Oct '16 - Jan '17*
- Enabled real time scheduling of conference rooms at the undergraduate institution by developing scalable web application using LAMP stack with features to manage rooms, reservations and dynamic views
- Implemented session based prioritisation to handle simultaneous requests for a resource from multiple users

Object Detection [Undergrad] *Jan '18 - Apr '18*
- Developed an ML inference application to identify objects in new set of images using a pre-trained model
- Implemented a module to let user manually label the objects in a sample collection of images and retrain model