Subhashini Arunachalam

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EDUCATION

Master of Science in Computer Science   **Mar 2021**
Drexel University, Philadelphia, PA   GPA: 3.76
Coursework: Data Structures and Algorithms, Artificial Intelligence, Software Design, Object Oriented Design, Developing User Interfaces, Operating Systems, Machine Learning, Database Management Systems

Bachelor of Technology in Information Technology   **May 2014**
Anna University, Chennai, India

TECHNICAL SKILLS

- **Programming Languages** : Java, Python Flask, JavaScript
- **Web Technologies**   : HTML5, CSS3, Angular 9, React
- **Databases**   : SQL - PostgreSQL, MySQL, Oracle, MongoDB, Active Directory
- **Operating Systems**   : Linux, Windows
- **Tools/Platforms**   : AWS (Certified Developer Associate, Certified Cloud Practitioner) , Microsoft Azure, Git, VS Code, Eclipse

PROFESSIONAL EXPERIENCE

Software Engineer - Harmelin Media, Philadelphia, PA   **May 2021 – Aug 2022**
Languages and Tools Utilized: Python Flask, React Admin, Material UI, PostgreSQL, SQLAlchemy, MongoDB, Data Pipelines, Sentry, RabbitMQ, AWS EC2, AWS S3, Redshift, AWS RDS, CI/CD, Kibana, Swagger, Git

- Developed React Admin, Python Flask web app for company's finance and analytics team to aid/improve the day-to-day business processes
- Designed and implemented RESTful APIs that connects to AWS RDS, S3 storage, achieving 20% improvement in data retrieval speed
- Built Data pipelines using Amazon Redshift, RabbitMQ to fetch and analyze the client's Ad impressions data to determine the trends and improve reporting experience

Software Engineer Intern - ECS Inc., Jersey City, NJ   **Jun 2020 – Sep 2020**
Languages and Tools Utilized: Angular Ng-Admin, Node.js, MySQL, Material UI, Microservices, API Integration, MVC, Git

- Worked on an Angular, Node.js Express and MySQL based web application from scratch following Agile methodology
- Part of a 5-member team that developed a responsive interface for API integration between QuickBooks and Zoho CRM using HTML, CSS and JavaScript
- Implemented JSON Web Token (JWT) based authentication for secure information transfer resulting in lesser DB queries

Software Engineer - WIPRO Limited, Chennai, India   **Nov 2014 – Nov 2016**
Languages and Tools Utilized: Java, Microsoft Active Directory, Remedy, Citrix, Eclipse, Microsoft Office

- Automated creation & termination of bulk load of network accounts thereby preventing errors and saving 5 to 7 minutes per user account
- Trained new hires to evaluate user requirements and perform role based access management in Microsoft Active Directory and clinical applications
- Created standard operating procedures for different processes and resolved high level escalations in quick turnaround

GRADUATE PROJECTS

Sentiment Analysis of E-commerce products   **Jan – Mar 2021**
Languages and Tools Utilized: Python

- Implemented sentiment analysis to classify online reviews using Naive Bayes Classifier
- Employed Deep Learning method for N-grams to leverage the existing opinionated content in order to offer better user experience

No To Hunger   **Sep – Dec 2020**
Languages and Tools Utilized: Angular, Bootstrap, Material UI, Java - Spring Boot, Maven, JDBC, MySQL, MS Azure, CI/CD, MVC, Singleton pattern, Git

- Created an interactive web application that allows user to donate and receive food from the donors
- Utilized CI/CD process to deploy the application into Azure

Optical Flow with Neural Networks [Computer Vision]   **Apr – Jun 2020**
Languages and Tools Utilized: Python - Keras, Github

- Used optical flow estimation to quantify the motion of objects in a video stream
- Achieved almost 95% accuracy and 1% loss per epoch for the prediction model

AWARDS

- Drexel University – Dean's Scholarship   **Sep 2019**
- Anna University – Secured top 1 % among 6000 students in the Bachelor's   **May 2014**

PROFESSIONAL ASSOCIATIONS

- Society of Women Engineers (SWE), Philadelphia   **Jun 2020**