Subhashini Arunachalam

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TECHNICAL SKILLS

- **Programming Languages.**   : Python, Java, JavaScript, HTML, CSS
- **Framework/Libraries**   : Flask, FastAPI, Spring Boot, React Admin, Material UI
- **Databases**   : PostgreSQL, MongoDB, Active Directory
- **Cloud Technologies**   : AWS EC2, SNS, ECS, Lambda, RDS, S3, Redshift, CloudWatch
- **DevOps & Automation.**   : CI/CD (GitHub Actions), Version Control (Git)

Certification: AWS (Certified Developer Associate, Certified Cloud Practitioner)

EDUCATION

Post Graduate Certificate Program in AI & ML   **Nov 2025 (expected)**
Texas McCombs School Of Business
Master of Science in Computer Science   **Mar 2021**
Drexel University, Philadelphia, PA   GPA: 3.76
Bachelor of Technology in Information Technology   **May 2014**
Anna University, Chennai, India

PROFESSIONAL EXPERIENCE

Software Engineer - Digit7, US   **Jul 2024 - Jan 2025**
- Used Python FastAPI to develop and implement RESTful APIs to integrate Stripe payment gateway into the autonomous store product, enabling seamless payment processing and transaction handling,
- Enhanced cloud-based solutions using AWS services (EC2, S3, Lambda, SNS), optimizing resource management and improving operational efficiency
- Implemented automated testing in CI/CD pipelines to validate data transformations, reducing deployment errors by 20%
- Designed, optimized and managed database (PostgreSQL, MongoDB) writing complex queries and ensuring optimal performance and data integrity

Software Engineer - Harmelin Media, Philadelphia, PA   **May 2021 – Aug 2022**
- 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 integrating with AWS RDS, Amazon S3 for scalable object 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
- Designed and integrated RESTful APIs while utilizing front-end framework React Admin to create dynamic and responsive user interfaces resulting in increased user engagement by 30%
- Implemented data analysis workflows using Numpy and Pandas to efficiently analyze and manipulate large datasets to provide timely updates to analytics team

Software Engineer Intern - ECS Inc., Jersey City, NJ   **Jun 2020 – Sep 2020**
- Worked on an Angular and Node.js based web application from scratch following Agile methodology
- Designed and implement a responsive user interface for smooth API integration between QuickBooks and Zoho CRM using HTML, CSS and JavaScript (Angular) to facilitate data synchronization
- Implemented JSON Web Token (JWT) based authentication for secure data transmission resulting in lesser DB queries and improving API efficiency

Software Engineer - WIPRO Limited, Chennai, India   **Nov 2014 – Nov 2016**
- Automated creation & termination of bulk load of network accounts thereby preventing errors and saving 5 to 7 minutes per user account
- Collaborated with multiple application teams to develop a report generation tool that sends out emails on daily status enhancing communication
- Created standard operating procedures for different processes and resolved high level escalations in quick turnaround

GRADUATE PROJECTS

Sentiment Analysis of E-commerce products [Artificial Intelligence]   **Mar 2021**
- 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

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**