

ANISH OSWAL

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EDUCATION

Master of Science in Computer Science

Arizona State University, Tempe, AZ

May 2021

GPA: 3.74/4

Relevant Coursework: Data Mining, Info Assurance & Security, Distributed Database Systems, Data Visualization

Bachelor of Engineering in Computer Engineering

Savitribai Phule Pune University, Pune, India

May 2019

GPA: 8.82/10

Relevant Coursework: High Performance Computing, Cloud Computing, Data Analysis, Advanced Data Structures, Software Engineering & Project Management, Soft Computing & Optimization Algorithms, Software Modeling & Design

TECHNICAL SKILLS

Programming: Java, Python, C++, C, JavaScript, HTML5, CSS, Bootstrap

Technologies: AWS, WordPress, Git, Docker, Selenium, SpringBoot, Lombok

Databases: PostgreSQL, MySQL, MongoDB

Certifications: MTA - Security Fundamentals: Microsoft, C Programming: SEED Infotech

WORK EXPERIENCE

Software Development Engineer I - Amazon, USA

May 2022 - Present

- Achieved a remarkable 70% hardware host reduction in infrastructure costs through strategic optimization, significantly enhancing service efficiency and financial savings while maintaining optimal service performance and availability.
- Led the development of user-centric features for Alexa, notably implementing the blocking of Alexa suggestions during media playback, resulting in an improved customer experience among others.
- Played a pivotal role in an agile environment, fostering cross-team collaboration and leading the internal migration of Alexa services eccentric to revenue optimizations structured to support LLMs using Java, enhancing overall ecosystem performance.
- Mentored and onboarded interns, delivering comprehensive training on team dynamics, technical concepts, and package ownership, contributing to their seamless integration and growth within the team.

Developer Support Engineer I - Amazon Web Services, USA

Jul 2021 - April 2022

- Worked on resolving and maintaining AWS SDKs for Java, CLI_i and Python (boto3).
- Solved bugs, feature requests and guidance issues for AWS SDKs collaborating with multiple SDK teams.
- Gained hands-on experience using various services and their API functionalities offered by Amazon Web Services (AWS).

Software Engineer - Arizona State University, USA | [3DConcrete](#) | [TOMNET](#) | [SSEBE](#)

Dec 2019 - May 2021

- Teamed up with teams across various departments to engineer and document source code in Java and Python.
- Developed, redesigned, and managed Arizona State University websites from scratch using WordPress, HTML, CSS & JavaScript.

Android Developer Intern - InProspect Technologies, India

Jun 2018 - Aug 2018

- Lead the UI UX Design team on Material Design schematics for building an education eccentric android application.
- Administered User Analytics, Front-end Back-end app development using Python and Java for Android.
- Collaborated in grooming, optimizing testing various algorithms leading to 30% increased processing efficiency.

Software Engineer Intern - A.B. Enterprises, India

Apr 2017 - Mar 2018

- Implemented & deployed a Inventory Management & Sales Analysis Software using Java, Python and MySQL.
- Attained 20% increased work productivity & profits from the introduction of management software for the company.
- Navigated the manufacturing company's direction towards a highly reliant automated software-based environment.

PROJECTS

Post-Disaster Visualization Dashboard | [GitHub](#)

Fall 2020

- Developed an interactive visualization dashboard to determine the problems in a city using social media data in a post-disaster scenario to recommend allocation of emergency resources & gather deeper insights.
- Programmed the dashboard using Python for data engineering and, HTML5, CSS, JavaScript and D3.js for visuals and back-end.

Data Processing at Scale

Fall 2020

- Designed a query processor to manage data partitioning and pipe-lining for distributed database systems using PostgreSQL.
- Engineered a map-reduce algorithm program using Hadoop framework and Java.

Information Dissemination in a Graph | [GitHub](#)

Fall 2019

- Implemented information dissemination to observe the propagation of an entity like a meme or a virus using Python.
- Integrated the algorithms (NetShield, K-Edge addition & deletion) into an ensemble system to maximize or minimize information spread through a network which can be used to stop a virus or spread information on the web.

Software Development for Laser Marking Machines

Fall 2018 - Spring 2019

- Assembled 3 modules: Automation of laser marking jobs, camera orientation & image correction, & real-time error detection into a desktop software for automating the laser marking machines at Suresh Indu Lasers Pvt. Ltd.
- Engineered the software using C#, Java, VS19, Python & also published a paper in an *International Journal (IJIRSET)*.