

Arsheya Raj

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EDUCATION

University of Washington Bothell – School of STEM

Bothell, WA

Master of Science in Computer Science and Software Engineering

Expected August 2024

- GPA: 3.90/4.0
- *Relevant Coursework:* Mobile Computing, Algorithm Design & Analysis, High Performance Computing, Evaluating Software Design, Software Management, Adv. Topics in Computer Vision

Birla Institute of Technology Mesra

Ranchi, Jharkhand, India

Bachelor of Engineering in Information Technology

June 2018

- GPA: 3.82/4.0 (WES ICAP)

TECHNICAL SKILLS

Programming Languages: C/C++, Java, Python (NumPy, pandas), PostgreSQL, JavaScript, Shell Scripting

Cloud Computing Platforms: Amazon Web Services (AWS), Google Cloud Platform (GCP)

Certifications: Google Cloud Digital Leader Developer

Achievements: Qualified for ACM ICPC Onsite Round and Google Code Jam in 2016 and 2017, Member at The Society for Collegiate Leadership & Achievement (SCLA)

Technical Skills: Cloud Computing, Mobile Computing, Big Data Analysis, Data Analysis & Synthesis, NVIDIA CUDA, OpenCV, React Native, React.js

EXPERIENCE

I-Corps Summer Cohort 2023, CoMotion at University of Washington

June 2023-July 2023

Freelance App Developer / React Native Developer, Self-Employed

April 2020-April 2022

- Built native Android and iOS Apps using React Native platform, JavaScript, and Google Cloud Platform for video conferencing, video sharing, quiz portal, etc.
- Performed alpha, beta, and closed testing to ensure quality and security of applications.
- Contributed to 6 system design specifications for the web app / native app of clients
- Identified and resolved 10 critical bugs in client's video sharing react-native app before deployment.

ZS Associates - Contracting Capability Evolution (CCE)

Pune, India

Business Technology Analyst

May 2018-September 2019

- Collaborated with team to build automated and flexible solutions that helped client optimize current profitability and build the foundation to support appropriate risk-based pricing and contracting models
- Delivered releases using AWS Services such as Amazon Redshift, AWS EC2, AWS S3 for backend
- Reduced the run time by 5% by automating the process which ran on the AWS EC2 instances for ETL batch upload using Shell Scripting
- Updated the JARs to automate processes for Master Data Management (MDM) software in Reltio creating a customized action button using Node.js data from multiple sources and display as one.

Business Technology Analyst Intern

Winter 2018

- Developed and designed code in PostgreSQL, ETL, and Data Warehousing in Amazon Redshift
- Presented results and test cases to leadership, clients, and stakeholders.

AllSoft Solutions Pvt. Ltd.

Noida, India

Summer Intern: Big Data

Summer 2017

- Developed proof-of-concept proposal to analyze large datasets for top 10 lists from several categories utilizing Hadoop, HDFS, Map-Reduce, Hive, Pig, and other technologies.

TECHNICAL PROJECTS

Enhanced Vocabulary Trees for Real-Time Object Recognition in Image and Video Streams, Advanced

Topics in Computer Vision

Spring 2023

- This project explores the application of hierarchical k-Means clustering trees in the field of computer vision, influenced by the research paper of Nister and Stewenius (CVPR 2006 – Scalable Recognition using Vocabulary Tree).

K-Means Clustering in CUDA, HPC

Winter 2023

- Implemented the efficient k-means clustering algorithm on the CUDA platform on GPU using threads and blocks.