Tanmay Singal

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EDUCATION
Master of Science, Computer Science   Expected July 2024
San José State University, San José, CA
Relevant Coursework: Topics in Cloud Computing, Advanced Parallel Processing

Bachelor of Technology, Computer Science Engineering   June 2021
Guru Gobind Singh Indraprastha University, Delhi, India
Relevant Coursework**:** Algorithm Design and Analysis, Data Structures, Operating Systems, Programming in Java, Object Oriented Programming, Computer Networking, Relational Databases, Software Engineering

CERTIFICATIONS
AWS Certified Solutions Architect Associate   July 2021
- Capable of building robust solutions using the services and technologies offered by the AWS cloud
- Demonstrated ability to design scalable, resilient, efficient, and fault-tolerant distributed systems

TECHNICAL SKILLS
Application Development: Java, Spring framework (API, Security, ORM), PostgreSQL, JUnit 5, Maven
Mobile App Development: Kotlin, Flutter, Dart, Android Studio, Jetpack, Room, LiveData
Amazon Web Services: EC2, S3, EBS, EFS, Lambda, Route53, ELB, CloudFront, FSx, RDS, SQS, and many more.
Web Development: HTML, CSS, JavaScript, jQuery, MongoDB, ExpressJS, ReactJS, Node, RESTful APIs, Web Tokens

RELEVANT PROJECT
Delhi Transit | Thesis Project   June 2021
- Led a development team of three to design and develop a public transit navigation application; ensured project completion adheres to strict timelines while also maintaining code readability and maintainability
- Consumed geographic location updates of DTC buses published by the transit authority as bursts of protocol buffer streams. Computed the predicted bus arrival and departure times based on delays incurred so far
- Provided much needed transparency and predictability into Delhi's erratic bus transit system by serving users reliable information through an Android app which keeps up with the ever-changing transit situation

WORK EXPERIENCE
Cloud Support Associate - Amazon Web Services, Hyderabad, India   July 2021 – July 2022
- Provided technical support to enterprise customers of AWS' data storage services such as Amazon S3, Amazon Elastic File System, AWS Storage Gateway, AWS DataSync, and members of the Snow family
- Troubleshot critical call, chat and email support cases by replicating their complex cloud infrastructures, often involving an interplay of various AWS services, in a lab environment on a daily basis
- Experienced in communicating advanced concepts to customers with varying levels of technical proficiencies

Google Summer of Code 2021 Student – Vitrivr Project (University of Basel)   June 2021 – August 2021
- Engineered support for IIIF Image, Presentation and Change Discovery APIs allowing Vitrivr's content scrapper to tap into millions of image resources such as historical book manuscripts and museum artifacts
- Displayed image origin metadata to users by querying it from Vitrivr's custom column-store database while also adding OpenSeaDragon image viewer support to the AngularJS based web-client to load remote images

Google Summer of Code 2020 Student – Global Alliance for Genomics and Health   June 2020 – August 2020
- Eliminated friction encountered in the genomics world when trying to find alternate nomenclatures of genomic sequences by building an easy-to-use alias resolution tool based on the NCBI GenBank datastore
- Produced a unit tested and maintainable open-source codebase that uses PostgreSQL docker containers to cache results of previous queries, thus cutting down repeated request times to just a fraction of a second