Dhruv Krishnan

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EDUCATION

University of California, Davis   Sep 2019 - Present
Master of Science in Computer Science   Graduation: Jun 2021
- **Courses**: Distributed Database Systems

BITS Pilani, India   Aug 2013 - Jul 2017
Bachelor of Engineering (Hons.) in Computer Science   CGPA: 8.43 / 10.0
- **Courses**: Data Storage Tech and Networks, Operating Systems, Data Structures and Algorithms

SKILLS

Languages	C++, Java, Python (Familiar), SQL, Bash
Frameworks	Spring, Git, Jenkins, Docker

WORK EXPERIENCE

Senior Software Engineer - Societe Generale, Bangalore, India   Jul 2017 - Jun 2019
- Full stack developer for SUMMIT FT, a C++-based cross asset trading application focusing on OTC derivatives, covering all front-to-back office requirements.
- Enhancement of important business use cases in an in-house Java based trade reconciliation application, such as improved alerts for trade breaks and warnings for anomalies.
- Lead my 12 member feature team's agile transformation, resulting in a **50% reduction in production issues** and a **10% savings of man days**.
- Setup the complete Continuous Integration pipeline through Jenkins for automated builds, unit tests checks and static code analysis.

Research Intern - NetApp ATG, Bangalore, India   Jan 2017 - Jun 2017
- Proposed a **cross user secure deduplication solution in the cloud** with minimal deduplication performance loss and limited overheads in a realistic environment.
- Implemented a Proof of Concept in Python, leveraging an AWS S3 bucket for experimental validation.

Software Engineer Intern - CDIT, Trivandrum, India   May 2015 - Jul 2015
- Developed a grievance redressal portal for the Kerala government (http://cmo.kerala.gov.in/).
- Has since been integrated with the Kerala Chief Minister's Disaster Relief Fund after the 2018 Kerala floods crisis, which has **received 400 million dollars in contributions**.

PROJECTS

Implementation of BFT-SMaRt in ResilientDB Blockchain Fabric   Sep 2019 - Dec 2019
Github: https://github.com/DhruvKrish/resilientdb
- Currently implementing the Byzantine Fault Tolerant protocol into the consensus engine of the distributed system.

NAV Fund Visualizations in Virtual Reality   Sep 2018 - Oct 2018
Demo-1: http://splendid-plant.glitch.me Demo-2: http://dust-fight.glitch.me
- Developed an A-frame and three.js based Virtual Reality application for effective visualization of dynamic NAV Fund data by mutual fund portfolio managers, which won the Societe Generale Hackfest.

Optimal Paths in Multi Layer Transport Networks   Sep 2016 - Nov 2016
- Designed and implemented a variation of the A* algorithm, incorporating network hubs to find optimal paths with regard to cost and time in multi layer transport networks.
- Analysis on the Hyderabad transport network showed an **average cost reduction of 5%**.

Information Retrieval Feature Selection Design   Apr 2016 - Mar 2016
- Implementation achieved an **accuracy of 93%** using the SVM and NB classifiers and classic3 dataset.

HONORS AND ACHIEVEMENTS

Best Technical Employee of the Quarter - SG Security Services, India	Aug 2018
Winner (NAV Fund Visualizations in Virtual Reality) - Societe Generale HackFest, India	Oct 2018