

Experience

JUL 2018 - DEC 2021

Nines - Palo Alto, CA - *Senior Software Engineer*

- As a tech lead, provided mentorship to engineers on improving systems iteratively, such as data model refactors and infrastructure as code, and led sprint planning to ensure projects met expected timelines
- Built core functionality for the Nines teleradiology clinic to allow radiologists to read scans from healthcare providers across the US
- Worked cross-functionally to prioritize and build features, resulting in a 200% increase in radiologist efficiency over one year
- Added company process to continuously lower engineering costs, cutting costs by more than 50% over one year
- Enabled the modeling team by building robust services for ingesting terabytes of data, creating an in-house labeling solution, and building an extensible system for easily training and testing machine learning models in Kubernetes

JUN 2015 - AUG 2015, FEB 2016 - JUN 2018

Salesforce - San Francisco, CA - *Senior Software Engineer*

- Created streaming pipeline to evaluate machine learning models on emails in real time using Apache Kafka and Apache Spark Structured Streaming
- Optimized production Postgres database query joining across 3 large partitioned tables and dropped query execution from 600+ ms to a constant 2 ms
- Introduced middleware to a centralized auth API server to proxy HTTP requests asynchronously to various internal REST services. Many internal REST services relied on this proxy to receive authenticated requests from end users

JAN 2011 - AUG 2012, MAY 2013 - AUG 2013

Robotics and Autonomous Systems Laboratory - Vanderbilt University, TN - *Intern*

- Integrated a heart rate sensor with a virtual reality program to develop an intelligent system that gave verbal feedback about an individual's stress levels while performing a task
- Interfaced a Microsoft Kinect motion sensor and a humanoid robot to help children with Autism learn via imitation learning

Education

AUG 2012 - DEC 2015

University of Michigan - Ann Arbor, MI - *Bachelors in Computer Science*

- GPA: 3.9
- Eta Kappa Nu (HKN), Dean's List, University Honors, Jean Fairfax Scholarship, John Deere Industry Scholarship
- Intro to Operating Systems, Database Management Systems, Intro to Machine Learning

Miscellaneous

- Writing, composing, recording music (<https://soundcloud.com/shu-das>)
- Playing soccer