

# Shuvajit Das

San Francisco, CA  
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## Experience

JUN 2015 - AUG 2015, FEB 2016 - PRESENT

### **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. All internal REST services now rely on this proxy to receive authenticated requests from end users

MAY 2014 - DEC 2014

### **Cask - Palo Alto, CA - *Intern***

- Contributed to Cask Data Application Platform, a big data application platform for developers
- Wrote applications using CDAP which stores, queries, and graphs data in real time

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

## Course Work

- Intro to Operating Systems
- Database Management Systems
- Intro to Machine Learning
- Information Retrieval and Web Search
- Intro to Computer Organization
- Intro to Computer Security
- Mobile App Development
- Data Structures & Algorithms

## Skills

- **Proficient:** Java, Kotlin
- **Intermediate:** C++, Python, Scala
- **Novice:** HTML, CSS, JS, Android
- **Hardware:** Microsoft Kinect, NAO Humanoid Robot, Arduino, Leap Motion

## Personal Projects

- Tidbits: React native app for keeping notes on important people and being reminded to keep in touch with them
- Leap Motion Synthesizer and Drums: Uses Leap Motion hand tracker to play MIDI notes and drums in the air

## Miscellaneous

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