

# Oindrill Dutta

Full Stack Developer & Software Engineer interested in AI/ML & Data seeking Full-Time Positions

## CONTACT

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## EDUCATION

**GEORGIA INSTITUTE OF TECH**  
**MS IN COMPUTER SCIENCE**  
In Progress

**SAN JOSÉ STATE UNIVERSITY**  
**BS IN COMPUTER SCIENCE**  
Graduated June 2018 | 3 Years

## SKILLS

### LANGUAGES

Java • Python • Ruby • C++ • C#  
HTML5 • CSS3 • ES6 JavaScript  
Lisp/Scheme • Scala • SQL • R  
Typescript.js • JSON • XML

### TECHNOLOGIES

JQuery • Node.js • WebSockets • RoR  
React.js • Redux • Polymer • AWS  
Django • Flask • Spring • Express.js  
Firebase • Mongo DB • Tensorflow(.js)

### TOOLS / SYSTEMS

SQL/NoSQL DBs • Ajax • REST APIs  
Linux • Putty • CLIs • NPM • Bower  
Jenkins • JUnits • Apache Tomcat  
⌘ • Agile • Git • Github

## INTERESTS

Machine Learning • Data Analysis  
Back-end & Front-end Engineering  
Full-Stack Development

## VOLUNTEERING

### GOOGLE GAMES CONTEST

1<sup>st</sup> Place Winner  
Problem solved many logical + coding  
challenges in a time-bounded setting

### LIBRARY TECH TOOLBAR

Directed the growth & purpose of the  
library tech toolbar initiative

## LANGUAGES

Fluent in English, Bengali, Hindi

## INDUSTRY EXPERIENCE

### SOFTWARE ENGINEER

React, Redux, Python, Django, PostgreSQL, AWS, NLP

Lawyaw | San Francisco, CA

Oct 2018

- Joined as 3<sup>rd</sup> engineer in a small startup team of 7, taking full ownership of the next flagship document automation product, rapidly iterating and pushing code on a weekly/daily basis to production based on user feedback, product direction, and designs, allowing for exponential growth to more markets
- Took part in shaping product direction and design, spearheading flagship product development, supporting on call for products used by 100s of law firms with multiple users, with over 130k+ templates generated

### SOFTWARE ENGINEERING INTERN

Java, JUnit, Jenkins, Git, Tomcat, Agile

IBM | San José, CA

Feb 2017 – Sep 2017

- Implemented and deployed multi-dependent application tools suite to production for IBM's DB2 Database Support Management Systems, allowing for easy integration with Salesforce to replace legacy Retain database support systems
- Refactored entire 20k+ line application across 12 repos to allow in-sync builds with each other, saving 500 man-hours per month of development and build time
- Created continuous integration system utilizing Jenkins, with an entire testing suite, to automatically test, push and revert development and production builds
- Fixed 2500+ runtime and compilation bugs of technical debt involving Gradle, Beans, namespacing, DRY code, logic errors, & class, packaging, & method issues

### SOFTWARE ENGINEERING INTERN

SQL, R, Shiny, JS, Polymer, Android

Aeris | Santa Clara, CA

June 2016 – Sep 2016

- Built robust & scalable IoT server for vehicle fleet management, transforming incoming binary OBD & CAN sensor data dumps from 100s of vehicles into human readable data, then storing in proprietary IoT Cloud SQL databases for logging and analysis
- Developed live interactive IoT dashboard to analyze fleets, displaying fleet locations on maps, graphs of driver safety ratings & live car movement data, & a queryable SQL interface; showcased to CEO & Investors for integration into production SaaS solution

## PROJECTS & AWARDS

### YOGA MASTER: REALTIME YOGA POSE FEEDBACK BEST ML PROJECT

Tensorflow.js, OpenPose, Node.js, ML [github.com/Yoga-Masters](https://github.com/Yoga-Masters) | 1/18 - 6/18

- Architected & lead a team project to use any device webcam to detect yoga poses
- Built an automated training pipeline to scrape 100s of YouTube videos of Yoga professionals, extract relevant frames, run OpenPose to get pose data, pre-process to make it ML ready & train it on a supervised FCNN model of 4000+ rows of pose image data

### MYO MESSENGER: SIGN LANGUAGE TRANSLATOR 1<sup>ST</sup> PLACE PRIZE

Myo, Firebase, Javascript, AI

[odutta.me/MyoMessenger](http://odutta.me/MyoMessenger)

| Hero Hacks | 8/14

Built an AI app using time-series data to send translated ASL signs for the speech impaired

### LEARN MOTION: MUSCLE MEMORY TRAINER MYO SPONSOR PRIZE

Myo, Pebble, Android, AI

[odutta.me/myoSport](http://odutta.me/myoSport)

| HackingEDU | 9/15

Built an AI app to record & replay movements to train using any wearable w/ accelerometer

### GLOBAL GRID: LOCAL LIVE MEETUP PAIRING SATORI SPONSOR PRIZE

Satori API, Polymer, Firebase, Node.js

[git.io/fA3fS](https://git.io/fA3fS)

| AngelHack | 7/17

Built a grid-based geofenced app using live location data to coordinate meetups closely

### VIEW ME: 3D FULL BODY GESTURE CONTROL PUBNUB SPONSOR PRIZE

Pubnub, Xtreme Reality, Autodesk 3D View [odutta.me/ViewMe](http://odutta.me/ViewMe)

| AngelHack | 7/14

Built an AI app to control 3D models with any device webcams using arm/torso gestures

### SIMPLE BOTTLE: PRESCRIPTION OVERDOSE MONITOR 1<sup>ST</sup> PLACE PRIZE

Tessel, Android, AerCloud, JavaScript

[git.io/fA3JO](https://git.io/fA3JO)

| Aeris IoT Hackathon | 4/16

Built a Pill Bottle to control pill dosage according to prescription, sending data to doctors