

AKHIL KESTUR

2616 Telegraph Ave, Berkeley CA, 94704 | (408) 596-6408 | akestur@berkeley.edu

- UC Berkeley Computer Science and Engineering Major looking for software engineering/data science roles

EDUCATION

University of California, Berkeley CA

August 2017 – Current

- **Technical Courses:** CS188 (Artificial Intelligence), CS186 (Databases), CS169 (Software Engineering), CS161 (Computer Security), CS170 (Efficient Algorithms), CS61B (Data Structures), CS61C (Computer Architecture), CS70 (Discrete Math), Data 100 (Principles and Techniques of Data Science), Data 8 (Foundations of Data Science), EE16B (Devices and Systems II), Physics 7A/7B
- **Computer Languages:** Python, Java, C, Gremlin, SQL, CQL, JavaScript, HTML/CSS, Ruby on Rails

Leland High School, San Jose CA

August 2013 – June 2017

- GPA – Weighted: 4.36; Unweighted: 3.98
- National Merit Finalist – SAT 2370/2400; PSAT 1510/1520; National AP Scholar

EXPERIENCE

Data Science Intern, DataStax

Jun 2019 – Aug 2019

- Wrote custom driver to inject Google Analytics Reverse Goal Path into Apache TinkerGraph NoSQL Gremlin graph database
- Analyzed network flow to and through DataStax Academy with APIs and cookies to model course registration and completion
- Built a regression based ML model to predict corporate deal closures based on feature selection on financial metrics
- Certifications – DS101: Introduction to Apache Cassandra, DS201: DataStax Enterprise 6 Foundations of Apache Cassandra, DS220: DataStax Enterprise 6 Practical Application Data Modelling with Apache Cassandra

Data Engineering Intern, Swyft Inc.

May 2019 – Jun 2019

- Wrote primary program to load and update Quividi API video monitoring data into Google Cloud Platform's BigQuery data warehouse
- Built ML framework to predict transactions/sales based on user traffic and Quividi demographic features of potential users

Data Science Research Assistant, CoolClimate Network

Jan 2019 – May 2019

- Led development for prediction and analysis of carbon emissions and energy usage for PG&E data
- Mentored by Dr. Chris Jones, Director at UC Berkeley's Renewable and Appropriate Energy Laboratory

Software Intern, Living Tree

Sep 2018 – May 2019

- Built ML classifier to filter emails, prediction model to optimize social media based on trends

Dorm Ex Machina, Robotics @ Berkeley

Aug 2017 – Dec 2017

- Designed and implemented phone application and circuit components to control electronic message boards remotely

Programmer, UC Santa Cruz COSMOS

Summer 2016

- Worked on PIC-32 microchips to direct supervised learning robot navigation under the mentorship of Professor Gabriel Elkhaim

President, Leland Speech and Debate

2016-2017

- President of 300+ member team ranked 1st in the United States by the National Speech and Debate Association
- District Champion, State Finalist, National Qualifier, Stanford Finalist, Martin Luther King Jr. Finalist

PROJECTS

Project Elevate (Web)

- Full-stack web application managing scheduling appointments and payments for a fitness program
- Ruby on Rails, ActiveRecord and SQLite for backend

Release (iOS)

- Apple watch application that guides users to improve basketball shot motion through ML training and prediction
- Swift Core Motion library for accelerometer and gyroscope sensor data, PostgreSQL backend, Python for ML

End-to-End Encrypted File Sharing System

- Used symmetric and RSA encryption along with hash-based authentication codes to preserve confidentiality and integrity in file sharing in Golang
- User and file data stored in publicly accessible datastore, encryption keys stored in public keystore

Database Design

- Built from scratch standard functionality of a relational database, including CRUD, join algorithms, and resource locking logic in Java

Autonomous Pacman

- Used uninformed search, markov decision trees, and reinforcement learning algorithms to build autonomous Pacman agent in Python