PRIANSH SHAH

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Education

Imperial College London - MEng Computing 2021
Currently enrolled in a 4 year full-time MEng Computing - Software Engineering program.

Professional Experience

Entrepreneur/Startup Founder - Aiko AI (2018), Gleme (2016-2017)
- Currently developing Aiko AI, a fully featured AI assistant in a B2B model
- Developed core **natural language processing** to parse and summate large texts, researched and deployed **LSTM** at scale for **natural language generation** from freely structured textual data, scaled production with **AWS Beanstalk**
- Performed logistical and technical duties as CTO of Gleme App, validated at 80% with **over 1000 respondents**
- Developed the mobile app with **React Native** and backend with **Express.js** on **Node.js** and **Mongoose** on **MongoDB**

Crane.ai - Machine Learning Intern (2017)
- Worked with **Computer Vision**, including applications of **Convolutional Neural Networks** and **OpenCV**
- Retrained models to apply **object detection** and **image classification** to varying UI contexts
- Built a pipeline with distributed AI models and wrapped actions in a **Flask API**, paired with a **Node.js task queue**

Hackster Live - Ambassador, NJ (2015-16)
- With the help of Hackster as a Hackster Live Ambassador, started and grew a meetup group of **over 100 members**
- **Held and mentored at hackathons**, coordinated tech-oriented meetups at least once a month
- **Ran outreach programs** with local community organizations and local maker faires
- **Exhibited at the World Maker Faire** (NYC) twice (held 1 exhibit in 2015, 2 exhibits in 2016)

Selected Projects

Feedbacker - Realtime Audience Emotional Tracking (2018)   (**git.io/vAHQ2**)
- *Measures audience emotional spectrum in realtime, shows results to presenter during presentation*
- Applies image-based **emotion recognition** with **Microsoft Cognitive Services** alongside a **custom classifier**
- I also wrote a companion phone app written in **React Native** for camera data input through a **Node.js API**
- Provides a custom presentation using **WebRTC** and **Socket.io** for ultra-low latency control from any screen via link
- With **natural language processing** and **natural language understanding**, I also analyzed audience feedback to **categorize sentiment**, served using **Python** and **Sanic**, and displayed emotion and setiment in realtime with **Chart.js**
- I implemented a full, **production-grade infrastructure**, deployed using **AWS EC2** and scaled with **Elastic Beanstalk**
- Won Best Newcomer Hack at ICHack 18: devpost.com/software/feedbacker

Tabstorm - Online Code Collaboration + Chat (2017)   (**git.io/vAHQE**)
- *Provides a simple collaboration platform with a markdown/code editor and a chat interface, fully secure peer-to-peer*
- I developed a **WebRTC**-compliant infrastructure with signalling and turn servers to create lightweight **P2P** connections
- Uses **Socket** to create rooms and communicate data between users, and **Express.js** with **Node.js** in the backend
- Provides a **static website** for ultra-lightweight high-performance design, compatible with **Vue.js** and the MVC model

ChanceyNN - College Admissions Predictor (2016)   (closed source, old version: **git.io/vA1Et**)
- Forecasts college admissions using GPA and SAT scores, publicly available, reaches 80% accuracy on most colleges
- Uses a deep neural network written in Tensorflow for Python, serves network through Flask, scales using Apache Spark Trended as the #1 article in Education and #1 article in Artificial Intelligence on Medium.   Article: goo.gl/wCxokR

Skills

- **Python** (Flask, Django, NumPy, OpenCV) (**4 years**)
- **JS/Web Stack** (HTML/CSS/JS, NodeJS, React) (**5 years**)
- **Java** (Android Studio, Neuroph, Scala) (**2 years**)
- **Machine Learning** (Tensorflow, Spark, Caffe) (**2 years**)
- **Mobile Apps** (React Native, Android+Java) (**3 years**)
- **Misc** (Unity3D, PebbleJS, COSMOS, Socket, C#, Git, Linux)

Awards

- Top 125 Halite II, #5 Machine Learning player (2018)
- Best Newcomer Hack @ ICHack 18 (2018)
- Top 100 PicoCTF competitors (2017)
- Top 10 PaCTF competitors in the Bartik round (2017)
- Scholastic Gold Medalist (2017), 2 Gold Keys (2017)
- 2nd Place Startup Pitch, MIT Launch (2016)