Ashley D'Souza

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Education

Rice University
Aug 2017 - May 2021
Houston, TX
- BS Computer Science, GPA: 3.6/4.0

Work Experience

HubSpot   *Software Engineering Intern - Growth Monetization Backend*   Summer 2020 · Remote
- Full ownership of revenue generation project for startup market involving multiple teams
- Develop Java application for cross-platform integration of business development managers & startups
- Design & deploy internal API's and clients with unit, integration & acceptance testing for use by other teams
- Maintain databases by building data access objects & automated jobs using SQL and Java

OpenStax   *Backend Development Intern - Biglearn/Tutor*   Summer 2019 · Houston, TX
- Built Rails application with automated testing for Biglearn endpoints, impacting 4,000 students/semester
- Transitioned Biglearn to AWS Aurora Serverless for scalability with load-testing & autoscaling
- Worked in intern team to build & pitch note-taking app to investors

Rice University, Dept. of Computer Science   *Teaching Assistant*   Fall 2019 · Houston, TX
- TA for Algorithms II: led office hours and discussion of labs, homework, and exams

Software Development Skills

Programming Languages & Frameworks
- Proficient: Python, Java, C, SQL, Ruby on Rails, Git, Linux, AWS
- Basic: Elm, JavaScript, HTML, React, ReasonML/OCaml, Hasura's Postgres + GraphQL

Projects

Lentil - A Web-Based Musician's Feedback Service   *Independent Project*   repo   demo   2018 - present
- Develop full-stack application for use by musicians and teachers (ReasonML, React, Postgres)
- Musicians submit recordings and receive feedback on specific points in recording

NBA 3-Point Analysis   2020
- Designed & implemented program to determine which teams would benefit most by moving 3-point line (SQL)
- Processed over 20,000 lines of historical player and game statistics from NBA database

Hidden Markov Models and Part-of-Speech Tagging (NLP)   2018
- Implemented statistical learning of hidden Markov model using training corpus of pre-tagged sentences (Python)
- Built model that assigns parts-of-speech tags to words in input text

Physics Sunset   *Independent Project*   repo   demo   2017
- Designed and implemented browser-based interactive graphical simulation of physics problem (ReasonML)

Awards

Rewriting the Code   *Fellow*   more   2019 - present · US/Canada
- US/Canada-wide competitive award for females in CS: coaching, networking educational programming

Leadership and Activities

- Public Relations Director & member of Club Tennis, Rice University   2017 - present
- CSters: Women in Computer Science, Rice University   2017 - present
- CS Club, Rice University   2017 - present
- Music: sing, record, perform, take lessons   soundcloud   youtube   2007 - present