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 & 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: lead 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* 2018 - present demo • Develop full-stack application for use by musicians and teachers (ReasonML, React, Postgres) · Musicians submit recordings and receive feedback on specific points in recording **Physics Sunset** *Independent Project* <u>repo</u> demo 2017 Designed and implemented browser-based interactive graphical simulation of physics problem (ReasonML) Hidden Markov Models and Part-of-Speech Tagging (NLP) 2018 Implemented statistical learning of HMM using training corpus of pre-tagged sentences (Python) · Used Viterbi algorithm to assign part-of-speech tags to new sentences using trained HMM **Disease Transmission Analysis from Outbreak Data** 2018 Inferred disease transmission tree from disease outbreak genetic/epidemiological data using RDMST (Python) **Awards Rewriting the Code** Fellow 2019 - present US/Canada US/Canada-wide competitive award for females in CS: coaching, networking educational programming PyoFuel: Using Python and Pathway Tools to engineer synthetic biofuel Dec 2016 Sole Author more Colorado • Accepted for 2016 Rocky Mountain Bioinformatics Conference (poster session) **Leadership and Activities** • Public Relations Director and member of Club Tennis, Rice University 2017 - present CSters: Women in Computer Science, Rice University 2017 - present CS Club, Rice University 2017 - present • Society of Women Engineers (SWE), Rice University 2017 - present • Music: sing, record, perform, take lessons soundcloud youtube 2007 - present