

Sai Vishaal Yalamanchali

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EDUCATION

- **University of California, Irvine** Irvine, CA
Computer Science / Biology (double major), B.S., Core GPA: 3.7 *Exp. Graduation June 2022*
- **De Anza Community College** Cupertino, CA
Computer Science, A.S., GPA: 3.6 *Aug. 2018 – June. 2019*
- **California State Polytechnic University, Pomona** Pomona, CA
Biology (General), B.S., GPA: 3.7 *Sept. 2017 – Feb. 2018*

EXPERIENCE

- **Prifina** San Francisco, CA
Software Engineering Intern *Jun 2019 - Sept 2019*
 - **Objective:** Worked with AWS Serverless services such as API Gateway, Lambda, and the S3 bucket to implement filesharing. Created a template to establish a method of documentation of AWS Lambda functions within the prototype.
- **IT SHOULDERS** Fremont, CA
Software Engineering Intern *Jun 2020 - Sept 2020*
 - **Objective:** Created Salesforce to GCP pipeline, implemented through the creation of a REST API that enabled Salesforce PushTopic tracking. Implemented using the Google Kubernetes Platform where Salesforce data was streamed to Google Pub/Sub and stored using Google BigQuery.

PROJECTS

- **Fabflix** *AWS-EC2, MySQL, Apache, Java, JavaScript, Android*
Full-Stack WebApp — RESTful API — 2020
 - **Function:** Created a website with functionality similar to Netflix (browsing, searching, and purchasing movies from a remote server). Implemented on AWS using a variety of JavaScript, servlets, HTML, Apache Tomcat, AJAX, CSS, and XML parsing to create the website while also being linked to a MySQL database.
 - **Scalability:** Implemented recaptcha, cookies, and load balancing via master-slave instances, implemented an android app using get and post requests made to back-end REST API.
- **Agent Based Cancer Simulation in Angiogenic — Hypoxic Environments** *Python, Mesa, Heroku*
Agent-Based Modeling — 2020
 - **Description:** Looked into biological perspective of tumor phenomena regarding VEGF mutations and implemented a mathematically backed solution using Mesa, an agent based python package.
- **Machine Learning Prediction Model on Breast Cancer Dataset** *PyTorch, Jupyter Notebook, scikit-learn*
Machine-Learning Model — 2019
 - **Function:** created to predict whether or not a patient had breast cancer based on the Breast Cancer Wisconsin (Diagnostic) Data Set.
 - **Methodology:** Implemented Random Tree Forest Models, Bayes Classifiers, linear SVM's and other ensemble models to create an accurate model.
- **Customized UCI ICS Department Search Engine** *Python, BeautifulSoup, nltk*
Search Engine — 2019
 - **Function:** created to scour UCI websites and implemented initially using a web crawler to index all tokens/documents into an inverted index cached as JSON files. Searches where under 100ms and memory overhead was minimal.