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| PROFILE | Dedicated, motivated, hardworking Data Engineer with excellent problem-solving capability & adept at quickly learning new skills. Leadership experience with strong oral/written communication skills. |
| EDUCATION | Santa Clara University, B.S. Mathematics & B.S. Computer Science 2014 - 2018 |
| SKILLS | Python, Airflow, Docker, Kubernetes (k8s), Linux, git, C, C++, Java, JavaScript, SQL, R |
| WORK EXPERIENCE | <p><u>Varian Medical Systems, Milpitas, CA</u> <i>Data Scientist/Engineer, Summer 2018 – Current</i> Data Pipeline For Radiation Machine Logs</p> <ul style="list-style-type: none"> - Independently built data processing pipeline to move machine log data from Varian's principal radiation therapy machine (our on-prem system) to an Azure Data Lake <p>Data Orchestration with ETL (Extract Transform Load)</p> <ul style="list-style-type: none"> - Singlehandedly implemented Airflow using Docker in Azure cloud & scaled with k8s - Compiled learnings into an extensive knowledge transfer & conducted workshop for five colleagues for 50 hours who are now working independently. (LINK: https://saicodes.com/airflow) <p>Attrition Model</p> <ul style="list-style-type: none"> - Built a predictive model for employee attrition using Python to clean, modify, & consolidate employee data - Presented results to CEO, leading to changes in Varian policy <p>Other Models & Work</p> <ul style="list-style-type: none"> - Independently created predictive & accurate models for inventory - Deployed Splunk application in k8s <p><i>Emerging Technologies Intern, Summer 2017 – Summer 2018</i></p> <ul style="list-style-type: none"> - Built interactive scatterplot & rendered 3 million data points with React, D3 visualizations, node.js - Developed predictive models for machine faults using Python which was later adopted into a future Varian Strategic Initiative <p><u>Hacker Dojo, San Jose, CA:</u> <i>VentureOut Intern, Summer 2015</i></p> <ul style="list-style-type: none"> - Developed a complete webapp, working closely with the CEO in a small start-up environment <p><u>Stanford Earth Sciences, Palo Alto, CA:</u> <i>History of Life Intern, Summer 2013</i></p> <ul style="list-style-type: none"> - Conducted ground-breaking research with PhD students on the evolution of Echinoidea in the Mesozoic Era - Presented a paper & poster at the American Geophysical Union Conference 2013 |
| OTHER PROJECTS | <p>FoodBox: Developed a webapp platform to connect businesses with non-profits providing food to the disadvantaged & reduce food waste</p> <p>Sentiment Analysis of Movie Reviews: using Python's scikit-learn library.</p> <p>Designed Website for Santa Clara University's Association for Women in Mathematics (AWM)</p> <ul style="list-style-type: none"> - LINK: https://spanneerselvam.github.io/scu-awm/ <p>Personal Portfolio: built portfolio saicodes.com using React.js</p> <p>Writing a Fantasy Novel: In progress. Over 200 pages written</p> |
| LEADERSHIP & AWARDS | <p>Awarded for Work in Attrition Model, Varian Medical Systems, CA</p> <p>Computer Science: Object Oriented Teaching Assistant, Santa Clara University, CA</p> <p>President of Association for Women in Mathematics (AWM), Santa Clara University, CA</p> <p>Vice President of Math & Computer Science Society (MCS), Santa Clara University, CA</p> <p>Honorable Mention for FoodBox, Santa Clara University, CA</p> <p>Team Leader at Galileo Summer Camps, Cupertino, CA</p> <p>Bay Area's Young Poet Award, Cupertino Public Library, CA</p> <p>Teen Conservation Leader, Monterey Bay Aquarium, CA</p> |