JONATHAN C. WONG

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EDUCATION

San Jose State University   Aug 2016 - May 2020 (Expected)
· Bachelor of Science in Computer Science, Mathematics Minor
· Dean's List (all semesters), Cumulative GPA: 3.7
Notable Coursework
· Data Science in Python, Data Structures and Algorithms, Object-Oriented Design, Deep/Machine Learning
  Database Management Systems, Programming Paradigms, Solving Big Data Problems

EXPERIENCE

NASA Ames Research Center   Aug 2018 - Present
Software Engineering Intern
· Building an open-source database storage and retrieval system for the astronomical research community.
· Developed a dynamic web-interface in React for intensive querying of metadata and data uploads.
· Created a Express.js/MySQL microservice in order to handle terabytes of data processing.
· Streamlined raw text, metadata, and JSON into data warehouse through ETL pipeline.

Cisco Systems   May 2018 - Aug 2018
Software Engineering Intern
· Intern for the Enterprise Data Services team which handles all Hadoop/HANA/Teradata clusters. Pushed and
  maintained a transaction/ticketing system into production as the sole developer.
· Created a RESTful API in Spring MVC, following clean coding practices and the DAO design pattern.
· Designed and implemented a reactive front-end in Angular consisting of dashboards, forms, and validation.
· Protoyped a Convolutional Neural Network in Keras that classifies between different employees within Cisco's
  internal directory system.

Sandia National Laboratories   Jan 2018 - May 2018
R&D Software Engineering Intern
· Developed new features and fixed bugs on a nuclear-detecting GIS web application in PHP and Javascript.
· Wrote efficient log file processing and web scraping scripts for 50GB of SQL commands and raw HTML.
· Created an aggregation of raw HTML pages from webscrapes of internal server pages using Python.
· Solved deprecation and dependency issues on a legacy production application in Ruby on Rails.

PROJECTS

Image Recognition Model - Used: Python, Tensorflow, Keras
· Created a 17-layered Convolutional Neural Network in Keras (backed by Tensorflow) that classifies between images
  of vehicles and animals. Trained on the CIFAR-10 dataset and achieved a 78% accuracy rate.

Photo-caption Webscraper - Used: Python, BeautifulSoup, Regex
· Webscraping program that collects and analyzes the New York Social Diary's photo-captions in order to gather
  the list of unique people that have attended parties in New York given a range of dates. Program also creates
  mutual friendship entities on a graph-based backend.

Food Review Analytic Report - Used: Python, Pandas, Numpy, Matplotlib
· Performed data cleansing operations on a large dataset of NYC restaurant reviews in Pandas. Generated data
  visualization charts and heatmaps in Carto in order to analyze NYC food hotspots.

TECHNICAL SKILLS

Programming Languages	Java, Python, JavaScript, Typescript, HTML/CSS, SQL
Frameworks & Others	Spring MVC, Angular, Node.js, React.js, Express.js, MySQL, Oracle, Pandas, NumPy, Flask, Keras, Bootstrap