Jacob P. Park

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Objective: Recent Physics M.S. graduate with experience in scientific research and numerical programming. Looking for positions in scientific, engineering, or data analytic roles.

EXPERIENCE:

SJSU Physics Dept.- *Associate Researcher*

San Jose, CA MARCH 2017 - JANUARY 2020

- Derived algorithms using Fortran95 for parallel processing of numerical calculations on a remote supercomputer in order to solve thousands of equations in minutes
- Used curve fitting techniques to develop analytic functions of generated data sets used general purpose solutions of physical models
- Used Python to aggregate, parse, and analyse results for publication in a scientific paper to secure rights to the method's application and outcomes
- Gave culminating research presentation at APS March Meeting 2019 to inform experts in the community of our insights and progress

Motive Retail - *Software Developer Intern Startup*

Louisville, CO JANUARY 2016 - JUNE 2016

- Used HTML, CSS, and Javascript to implement website applets for company's website that gave a more responsive and visually appealing experience for visiting clients
- Used Atlassian's JIRA tracker to work with colleagues in different geographical locations to get and update ticket issues
- Reached out over the phone to existing and potential new clients to track experience with features they were using and what could be worked on in future products
- Participated in standup meetings involving giving daily progress reports that updated colleagues on progress being made and what next steps should be taken

TEAM PROJECTS:

Undergrad - *Software Development Course*

- Worked in a group of 5 to create interactive web-based application to find a list social happy hours at local bars and restaurants
- Used Python and PHP to scrape dozens of local websites for relevant information and store it on a database to serve as our applications backend API
- Used Github as version control to work remotely and track requests and changes of the application's production version

EDUCATION:

San José State University	**Colorado University at Boulder**
M.S. Physics (GPA 3.6/4.00)	*B.S. Engineering Physics (GPA 3.37/4.00)*
San José, CA, Graduated August 2019	Boulder, CO, Graduated December 2016
Relevant Coursework:	Relevant Coursework:
-- Computational Physics	-- Intro to Data Structures & Algorithms
-- Numerical Analysis	-- Software Development Methods & Tools

SKILLS:

-- Project Presentation, Communicating technical details clearly, Technical Writing

-- Data Analysis (2+years), Web Development (1 year), Github (1 year), Unix(2+years)

-- Fortran (2+ years), Python (2+ years), C++ (1 year), Matlab (1+ year), BASH(1 year)