Preston Niayesh

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EDUCATION

University of California, Berkeley

Bachelor of Science in Electrical Engineering and Computer Science (EECS) | *Candidate - May 2023*

- GPA: 3.9/4.0
- Eta Kappa Nu (HKN) Scholar - National EECS Honors Society - Top 25% of juniors and seniors
- Student Athlete - Swimming - #1 Ranked Cal Men's Swimming Team as top national recruit
- Golden Bear Award - Cal Men's Swimming - Team's highest GPA
- Industrial Relations Committee - HKN - Organizing corporate recruiting events
- Berkeley Investment Group (BIG) - Investment Analyst - managing $130,000 fund in assets

Relevant Coursework: Machine Learning, Artificial Intelligence, Efficient Algorithms and Intractable Problems, Discrete Mathematics and Probability Theory, Computer Security, Database Systems, Data Science, Data Structures, Computer Architecture

El Diamante High School - Visalia, CA
August 2015 - June 2019

- Valedictorian - Ranked Number #1 in class of 463
- GPA: 4.39/4.39 - Straight A's throughout, including 12 AP Classes (scored 4 or higher on all AP Tests)
- 3 year MVP and Captain (2019) of Men's Varsity Swim Team
- 6 year member of the Jazz Band as lead guitarist

EXPERIENCE

Software Engineer Intern, Gusto, May 2021 - August 2021
- Integrated company specific policies with Gusto's payroll management software to improve customer onboarding experience
- Utilized React, GraphQL, and Ruby on Rails to increase accuracy of customer's first payroll run by 11%
- Developed first project at Gusto that incorporates Optimizely, Redash, and Amplify for A/B testing and comparing metrics

Machine Learning Researcher, UCSF Department of Radiology and Biomedical Imaging, September 2020 - present
- Applying Machine Learning, Natural Language Processing, and Computer Vision to tackle clinically important problems
- Communicating research problems and results to clinicians, engineers, entrepreneurs, and the general public
- Submitting a national medical machine learning abstract under the guidance of Dr. Jae Ho Sohn

Software Engineer Intern, PeachPay, June 2020 - September 2020
- Used React Native to develop the mobile app for seamless, fast checkout through QR code scanning
- Improved functionality of the server, mobile app, and browser plugin of e-commerce platform based on customer reviews
- Worked extensively with JavaScript technologies to increase usability of checkout software by other online stores

SKILLS

Programming Languages: Python, Java, C++, C, Ruby, SQL

Web Development: JavaScript, React, Ruby on Rails, GraphQL, HTML, CSS

Other: Git, NumPy, Pandas, Scikit-learn, Keras, Linux, Pytorch, Amplify, Redash, Optimizely

PROJECTS

Itinerary to Calendar Converter
- Designed a program using Python and JavaScript to add every event in an itinerary on Google Docs to Google Calendar
- Created Python functions to parse dates and events in the itinerary into a spreadsheet
- Integrated the Google Sheets API and Google Apps Script to transfer these events to Google Calendar

Minecraft Server Backup and Restore
- Built a Java program to backup current progress on any Minecraft: Java Edition server as well as restore backup data
- Backup includes an info file with the time and information about the backup including an optional message by the player
- First program ever created on Mac for backing up and restoring Minecraft: Java Edition server data

Gitlet
- Implemented a custom version-control in Java that supports the main functionalities of Git
- Created data structures such as blobs, trees, and commits to store data with SHA1 Hashing
- Supports: init, add, commit, rm, log, global-log, find, status, checkout, branch, checkout, branch, rm-branch, reset, merge

HONORS AND AWARDS

- Volunteer Tutor and Teacher's Assistant in Chemistry and Calculus
- Scholar Athlete of the Year for Subway 2019 and El Diamante High, Scholastic All-American Swimmer - multiple years
- President of California Scholarship Federation Honors Society
- Academic Decathlon Champion in Mathematics