Yasoob Khalid Niazi

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Education

University of California, Berkeley — **Berkeley, CA**

Bachelor of Arts, Computer Science — *Aug 2018 – May 2022*

GPA: 3.85/4.00 *(cum laude)*

Honors: Upsilon Pi Epsilon (UPE) Laureate (CS Honors Society), EECS Honors Student, Dean's Honors List

Relevant Courses: Data Structures, Computer Architecture, Discrete Mathematics, Algorithms, Probability Theory, Optimization, Operating Systems, Computer Security, Database Systems, Artificial Intelligence, Machine Learning

Skills

Languages: Python, Java, C, SQL (Postgres), HTML/CSS, Javascript

Frameworks: React, MongoDB, Bootstrap, Jest, JUnit, React-Testing-Library (RTL)

Developer Tools: Git, Heroku, Travis CI

Machine Learning & AI: TensorFlow, NumPy, Pandas, Matplotlib, Seaborn, Scikit-Learn, OpenCV, DLib, NLTK, SpaCy

Work Experience

Replate Inc. — **Oakland, CA**

Software Engineering Intern — *June 2021 – Dec 2021*

- Creating new front-end pages and updating existing ones using React, given Figma design mocks and strict deadlines
- Introduced the React-Testing-Library (RTL) for React component testing and updated all previously created Jest tests to fit the RTL framework. This drastically reduced boilerplate code and standardized the firm's testing philosophy
- Configured and integrated RuboCop (Ruby linter) throughout the entire codebase, introducing Ruby linting into CI workflow
- Writing extensive integration, component, and unit tests using Jest and the RTL
- Performing exhaustive pre-deploy quality assurance (QA) checks to smoothly introduce new features into existing products
- Participating in scrums, code reviews, and sprint planning in an Agile environment, while communicating directly with project managers and designers across different teams on new feature specifications and implementation details

Walmart Labs — **Sunnyvale, CA**

Software Engineering Intern — *June 2020 – Aug 2020*

- Developed a Natural Language Processing (NLP) pipeline (preprocessing, model training, analyzing, reinforcing model) using SpaCy for Walmart's database of driver and customer reviews, resulting in the extraction of meaningful insight and key issues
- Created a Convolutional Neural Network (CNN) model using TensorFlow to analyze incoming reviews, distilling them into short problem statements and relevant action items, increasing readability and decreasing time spent perusing reviews
- Designed a custom User Interface (UI) to provide a rapid-response one-stop platform for review concerns, decreasing review analysis time by 87.5% alongside providing customers with quicker and better support

Academic Experience

UCB Haas Business School — **Berkeley, CA**

Research Assistant — *Aug 2019 – May 2020*

- Worked under Professor A. Fedyk, analyzing demographic biases to understand employment dynamics, parsing demographic characteristics from 4 million profiles (LinkedIn resumes), resulting in greater understanding of sector-specific prejudices
- Built a CNN based face detector in Tensorflow, able to detect faces 27.5% more accurate than the default HOG implementation and designed multiprocessing functionalities that reduced image preprocessing time by 30%
- Developed a custom CNN Classifier, 18% more accurate than pre-built models, to train the neural network to recognize gender and ethnicity from the facial data provided in the LinkedIn profile pictures

UCB EECS Department — **Berkeley, CA**

Teaching Assistant — *Aug 2019– May 2020*

- Instructed a Data Structures section and Discrete Mathematics and Probability section, spending 170+ teaching hours to ensure student comprehension by designing lesson plans and discussion worksheets
- Conducted regular midterm review sessions for 100+ students, holding review lectures and creating problem sets
- Helped struggling students by conducting 20+ hours of one-to-one advising sessions for more personalized guidance