ABHISHEK SHARMA

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EDUCATION

University of California, Berkeley — College of Engineering *Expected May 2021*
B.S. in Computer Science & Engineering, Selected Coursework in Business Berkeley, CA

Relevant Coursework *Algorithms — Artificial Intelligence — Computing with Data — Data Structures — Data Science — Discrete Math & Probability Theory — Machine Structures — Macro/Micro Economics — Machine Learning — Product Management*

PROFESSIONAL EXPERIENCE

Amazon May - August 2019
Software Development Engineering Intern *Seattle, WA*
· Software engineering for Amazon's Consumer Organization.

UC Berkeley HTC Vive Lab April 2019 - Present
Undergraduate Researcher *Berkeley, CA*
· Publication-track research on low-memory representations of indoor rooms for AR/VR scene reconstruction.

Google Jan 2019 - Present
Student Developer Fellow — g.co/marchmadness *Mountain View, CA*
· Developed novel 'explosiveness' metric to rank college basketball teams using Google Cloud BigQuery, Colab, Python, and SQL.
· Implemented Random Forests Regression algorithm to predict second half statistics in March Madness games.
· Starred in documentary and multiple TV commercials with live predictions during Final Four and Championship Games.

Oracle July 2018 - Nov 2018
Product Management Intern — Analytics Team *San Francisco, CA*
· Owned large-scale web-based predictive feature for $20B solar energy market.
· Reduced estimation error by 80% by migrating feature implementation from API to machine models.
· Achieved $\sim 10\%$ error rate by implementing Neural Network and Random Forest energy forecasting models in Python, Keras, and Spark.
· Automated testing process by developing Root Mean Squared Error analysis algorithm in Python.

International Computer Science Institute (ICSI) May 2018 - August 2018
Software Engineering Research Intern — Multimedia Group *Berkeley, CA*
· Assisted in improving AudioSet sound recognition deep learning model by building AudioNet, an annotated audio/video dataset.
· Developed shell scripts and hearing-screen tool (in Javascript and Python) to automate data cleaning and hire project members.
· Streamlined annotation process by building data annotation pipeline and maintaining tools on linux AWS server.

NASA August - December 2016
Web Applications Intern — Intelligent Robotics Group *Mountain View, CA*
· Utilized Python Django framework to optimize interface of GeoRef, NASA's geographic Computer Vision tool.
· Shortened time spent using service by 50% after performing extensive User Experience (UX) research.
· Prototyped suggestions in Mock-up form, using Balsamiq, Moqups, and Figma.

ENTREPRENEURSHIP, LEADERSHIP AND ACTIVITIES

Convergent UC Berkeley September 2018 - Present
Co-Founder, Head of Engineering — www.calconvergent.com *Berkeley, CA*
· Launching 2nd chapter of product development organization. Assisting in recruiting, teaching, and full-stack website development.

Innovate Berkeley September 2017 - October 2017
Tech Lead — CalSpot *Berkeley, CA*
· Defined concept and product requirements for CalSpot, an application which would reduce overcrowding at campus locations.
· Prototyped iOS application in Figma, focusing on user-centered details like design and ease of use.
· Pitched idea to board of employees from Apple, GS&P, Google, Linkedin, Cisco, EA Sports, Microsoft.

Udemy 2016 - Present
Instructor *San Francisco Bay Area*
· Created and published course from scratch on business administration fundamentals, with 4,800 students from 110 countries.

PROJECTS

Recommendation Systems Spring 2019
· Built 5 types of algorithms used for large scale recommendation engines at LinkedIn, Amazon, Netflix, etc.
· Used Python, NumPy, Pandas to implement SVD, kNN, and Logistic Regression for system backend.

Yelp Classifier Fall 2018
· Analyzed ~2 million Yelp Reviews and performed natural language processing operations using Apache Spark and MapReduce model.
· Predicted 1/3/5 star rating with 70% accuracy, by building Naive Bayes Classifier with bag of words model in Python.

SKILLS

Development Python, Java, Javascript, C, HTML, CSS, Ruby on Rails, Spark, MapReduce, Node.js, XCode, Swift
Data Engineering NumPy, Pandas, Scikit-Learn, SQL, R, PyTorch, Keras, Tensorflow

AWARDS

Academic Awards National Merit Scholar, PTSA Scholarship Winner, 1st Place: DECA Case Study State Competition.
Community Awards Eagle Scout, President's Gold Volunteer Service Award (awarded twice for 600 service hours / 2 years).