

ABHISHEK SHARMA

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EDUCATION

University of California, Berkeley — College of Engineering August 2017 - May 2021
B.S. in Computer Science & Engineering, Certificate in Entrepreneurship & Technology 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 2019 - Present
Software Development Engineering Intern Seattle, WA

- Building frontend and backend for proprietary healthcare technology (NDA). Java, Javascript, HTML, CSS.

Google January 2019 - April 2019
Student Developer Fellow Mountain View, CA

- Developed novel 'explosiveness' metric to rank college basketball teams using Google Cloud BigQuery, Colab, Python, and SQL.
- Implemented Deep Learning algorithm** to predict second half statistics in March Madness games.
- Starred in documentary, multiple TV commercials with live predictions at halftime of Championship Game. (g.co/marchmadness)

Oracle July 2018 - November 2018
Product Management Intern 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 ~10% error rate by implementing Neural Network and Random Forest** energy forecasting models.
- Automated testing process by developing Root Mean Squared Error analysis algorithm in Python.

NASA August 2016 - December 2016
Software Engineering Intern 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.

ACADEMIC EXPERIENCE

UC Berkeley FHL Vive Center for Enhanced Reality April 2019 - Present
Undergraduate Researcher Berkeley, CA

- Publication-track research on low-memory representations of indoor rooms for AR/VR scene reconstruction.
- Developing autoencoder to learn Computer Vision-based latent space** representation of objects.
- Using Generative Adversarial Network (GAN)** to generate CAD models from image sequences.

Intel February 2019 - Present
Artificial Intelligence Student Ambassador / Researcher Berkeley, CA

- Graduate-level fellowship from Intel, granted computing resources to carry out **independent Information Retrieval research**.
- Working on novel methods of **learning metrics from a ranking**, building off of Google Research, on track to publication.

International Computer Science Institute (ICSI) May 2018 - August 2018
Research Intern 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.

Innovate Berkeley (Incubator Program) 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 through accelerated design sprint, 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.

ACTIVITIES & LEADERSHIP

Convergent UC Berkeley September 2018 - Present
Co-Founder, Head of Engineering — www.calconvergent.com Berkeley, CA

- Co-founded 2nd chapter of entrepreneurship organization. Recruiting, teaching, and full-stack website development (Node.js, Python).

Udemy, YouTube, Medium March 2016 - Present
Content Creator San Francisco Bay Area

- Produce videos and written content regarding career development, business, and product management.
- Garnered 15,000 views on YouTube, 5,000 views on Medium, and 4,800 students on Udemy.

Yelp Review Classifier (Large Scale Text Classification) October 2018
School Project

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

AWARDS & HONORS

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 thrice for 1000 service hours / 2 years).