

# Abhinav Ashar

713-474-3494 | abhinav\_ashar@berkeley.edu | Berkeley, CA

## Education

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### University of California, Berkeley

Management, Entrepreneurship, and Technology (M.E.T.) Program

B.S. Electrical Engineering & Computer Science – UC Berkeley College of Engineering

B.S. Business Administration – Haas School of Business

May 2021

May 2021

## Skills

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**Technical:** Python, Java, AWS Tools & CloudFormation, Native Cloud-Based Development, Unity Game Development, Object-Oriented Design, Backend Development, SQL, Web Scraping

**Non-Technical:** Project & Team Management, Use Case Development, Product Design, Market Research

## Work Experience

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**Amazon – Software Engineering Intern**, Big Data Technologies (Amazon.com) 06/2019 – 08/2019

- Designed and built an encrypted, multi-level cache that drastically minimized the number of redundant API calls executed by certain tools in Amazon.com
- Reduced API calls by 14x while adding user customization and global regionalization
- Created the team's first serverless AWS program using serverless computing (Lambda), databases (DynamoDB), encryption (KMS), endpoint re-routing and request validation (API Gateway) etc.

**Orca – Software Engineering Intern** 06/2018 – 08/2018

- Improved LinkedIn integration functionality by building and editing web-crawling/scraping features using Flask, Nightmare.js, and Electron
- Established authentication measures between Orca web application and desktop application
- Set up server hosting and domain routing using AWS and Cloudflare

## Extracurriculars

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**Teaching Assistant**, CS 61A (Structure and Interpretation of Computer Programs) 01/2018 - Present

- Member of teaching staff as a TA for Berkeley EECS under Professor John DeNero
- Assisted professor in teaching a 2000+ student introductory CS class and developed class content
- Taught discussion/lab of 30+ students every week over Python, Scheme, and SQL concepts

**Lawrence Berkeley National Lab**, Machine Learning Undergraduate Researcher 09/2018 – 01/2019

- Worked on data mining project to create a black box that analyzes certain material inputs and provides more insights to researchers about the predicted nature of certain materials

**Berkeley Business Society**, Vice President 08/2017 – Present

- Delta Airlines (Project Manager) – Built technology-based optimization strategy to minimize airplane turnaround time; researched/architected optimization plans based on math/CS research
- Magic Leap (Project Manager) – Developed long-term recommendations and use cases for AR/VR/MR; explored synergies between MR and machine learning, IoT, cloud computing etc.
- Zillow Group – Worked on technical ideation to integrate blockchain into Zillow.com platform
- Salesforce – Explored CRM-based use cases for Einstein AI Image Processing and NLP