

Kunal Adhia

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EDUCATION

University of California, Berkeley

Bachelor of Science, Electrical Engineering and Computer Science; Bachelor of Science, Business Administration; Minor, Mathematics

Berkeley, CA

Class of 2022

- **Cumulative GPA:** 3.976
- **Relevant Coursework:** Efficient Algorithms and Intractable Problems, Computer Security, Data Structures, Machine Structures, Information Devices and Systems, Microeconomic Theory, Economic Statistics and Econometrics, Financial Accounting

PROFESSIONAL EXPERIENCE

Amazon

Incoming Software Development Engineering Intern

Seattle, WA

June 2020 – August 2020

NVIDIA

Software Engineering Intern

Santa Clara, CA

September 2019 – December 2019

- Optimized functionality and performance testing for autonomous vehicle hardware on the compiler verification team.
- Automated GPU compatibility testing for Lawrence Livermore National Laboratory's RAJA software library using Python scripts.
- Tested and debugged new software builds and updates on the company's latest hardware and target machines.
- Collaborated with multiple software teams to add a static IP addressing functionality on the target machines.

Capital One

Data Engineering Intern

Plano, TX

June 2019 – August 2019

- Developed an internal communication platform which consolidates all messages sent to customers regarding auto loan payments.
- Productionized an integrated product which currently processes more than 3 million customer records monthly without error.
- Updated multiple Spring Boot stream applications to more efficiently store text and email data to a Cassandra database.
- Created a service on AWS to perform a sentiment analysis on over 5,000 customer calls in order to identify dissatisfaction words.

Voyager Consulting

Technical Manager and Strategy Consultant

Berkeley, CA

January 2019 – Present

- Used R to analyze trends in training course sales data and provide strategy recommendations for Red Cross.
- Conducted primary research and examined the coffee market for Illy Coffee's ready-to-drink product expansion into the US.
- Analyzed marketing strategies and loyalty programs in order to develop a new end-to-end customer experience for Lululemon.

Data Science Society at Berkeley

Contract Analyst

Berkeley, CA

January 2019 – May 2019

- Developed a data processor using AWS EC2, Lambda, and CloudWatch instances for Compliance.ai.
- Built a connector service to transform filtered data (JSON, XML, CSV) and export to compliance systems.
- Applied various transformation schemes to convert the content for usage within 3rd party systems.

RESEARCH EXPERIENCE

UC Berkeley College of Engineering

Electrical Engineering

Berkeley, CA

November 2018 – May 2019

- Implemented the Berkeley Model and Algorithm Prototyping Platform (MAPP) project in Python with a UC professor.
- Modeled and solved complex circuit simulation models with digital and analog components using differential equations.

New Jersey Institute of Technology

Computational Fluid Dynamics

Newark, NJ

May 2017 – August 2017

- Used the Gerris simulation software and mathematical analysis to analyze unique electrohydrodynamic conditions.
- Developed Python scripts to most efficiently determine threshold levels for desired electrical and molecular properties.

Stevens Institute of Technology

Handwritten Text Detection and Recognition

Hoboken, NJ

May 2017 – August 2017

- Used machine learning to more accurately detect the language of and identify words of handwritten documents.
- Focused on preprocessing data, creating a convolutional neural network with TensorFlow, and optimization strategies.

SKILLS & ACTIVITIES

Programming/Scripting Languages: Python, Java, C++, C, JavaScript, Scheme, SQL/CQL, R, HTML/CSS, Low Level Programming
Frameworks and Tools: AWS (EC2, ECS, S3, SageMaker), OpenCV, TensorFlow, Flask, Django, Cassandra, Postgres, Spring, Docker, Kafka, Git, Jenkins, JIRA, Confluence, Mac/Linux OS, Gerris, MS Office (Excel, PowerPoint, Word), Arduino, Pi, Jetson TK1, Xavier
Activities: Coaching Corps (Fall 2018), Hip-Hop Dance (Fall 2018), Berkeley Finance Club (Spring 2019), IM Basketball (Spring 2019)