

# Kunal Kathuria

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## EDUCATION

### UNIVERSITY OF CALIFORNIA, IRVINE GPA: 3.52 2018 - 2020

- Graduated with a B.S. in Computer Science in June 2020.
- Classes: Design and Analysis of Algorithms, NoSQL Data Management, Principles of Operating Systems, Information Retrieval, Artificial Intelligence, Probabilistic and Deterministic Graphical Model, and Machine Learning.
- Activities: Member of ZotHacks, AntAlmanac, Intramural Sports, and Video Game Development clubs.

### DE ANZA COLLEGE, CUPERTINO GPA: 3.6 2016 - 2018

- Took Data Structures and Algorithms and Intermediate C++ and Python classes.
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## WORK EXPERIENCE

### GAME DEVELOPER June 2019 - Present

#### ONE LONELY OUTPOST

- Implemented NPC movements and interaction systems.
- Implemented animations and sprites for crops and NPCs.
- Designed the cutscene system and dialog database for NPC characters.

### SOFTWARE ENGINEER INTERN June 2019 - August 2019

#### SUPER ABSTRACTIONS

- Designed landing pages for clients using React, HTML, and Javascript.
- Worked with PostgreSQL to store and query data.
- Interviewed small businesses owners and influencers for research regarding e-commerce.

### PERCUSSION COACH AND AUDIO ENGINEER August 2016 - August 2018

#### SARATOGA HIGH SCHOOL

- Taught students how to play percussion, led rehearsals, and designed the sound system for marching band shows.
  - Collaborated with other coaches and directors to design marching band shows.
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## PROJECTS

### ANTALMANAC

- Web application that assists UCI students in planning their courses for the upcoming quarters.
- Reworked notification system for course openings in Python and MongoDB.
- Utilized DynamoDB and Lambda for storing and querying course registration information with API Gateway.
- Link to website: <https://antalmanac.com/>

### ZOTSCHEDULER (IN PROGRESS)

- Web application that helps UCI students create a 4-year coursework plan.
  - Implemented a greedy algorithm for building a schedule and collected course data using Python.
  - Designed the front-end of the application using Flask.
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## SKILLS

### PROGRAMMING LANGUAGES

- Proficient in Python, C++, Javascript, HTML5, CSS, SQL, Git, and C#.
- Familiar with C, Node.js, and React.

### DATABASE MANAGEMENT

- MySQL, PostgreSQL, MongoDB, Cassandra, Neo4j, and Couchbase.

### DEVELOPMENT TOOLS

- Unity, Github, Bitbucket, Trello, and Agile.

