

# Katie Kim

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## SKILLS

### PROGRAMMING LANGUAGES

Typescript • Javascript • Java • Python  
C • C++ • Go • Kotlin • Lisp(Scheme)

### WEB/MOBILE DEVELOPMENT

Node.js • React.js • HTML/CSS • JQuery  
Springboot • Django • Flutter

### MONITOR/ANALYTICS

Splunk • Datadog • Grafana

### CONTAINER/ORCHESTRATION

Docker • Kubernetes

### BUILD/PACKAGE MANAGEMENT

Maven • Gradle • Yarn • Lerna

### DATA QUERY

SQL • Apollo • GraphQL

### DATABASES/CLOUD SERVICES

MongoDB • Firebase • AWS RDS • Redis  
AWS DynamoDB • Celery • AWS SQS

### GRAPHICS/DESIGN

OpenGL • WebGL • Three.js  
Figma • AutoCAD • Solidworks

### LANGUAGES

English • Korean • French

## COURSEWORK

**CS61A:** Structure & Interpretation of  
Computer Systems

**CS61B:** Data Structures

**CS61C:** Machine Structures

**CS70:** Discrete Math & Probability  
Theory

**CS161:** Computer Security

**CS170:** Efficient Algorithms & Intractable  
Problems

**CS184:** Foundations of Computer Graphics

**CS W186:** Intro to Database Systems

**CS188:** Intro to Artificial Intelligence

**DS100:** Principles & Techniques of Data  
Science

## CERTIFICATION

**AWS Cloud Practitioner:** July 2023

## EDUCATION

### UC BERKELEY

B.A. COMPUTER SCIENCE

B.A. MOLECULAR AND CELL BIOLOGY

Class of 2021 | Berkeley, CA

GPA: 3.385

## EXPERIENCE

### EXPEDIA GROUP, INC. SOFTWARE DEVELOPMENT ENGINEER II

September 2021 - present | Virtual CA

#### Identity (October 2022 - Present)

- Integrated Vrbo authentication systems to the One Identity platform, successfully launching to the public in July 2023.
- Reduced cloud costs by automating CICD code building and testing pipelines, leveraging the serverless feature of Github Actions.

#### Virtual Agent Control (March 2022 - September 2022)

- Specialized in accessibility engineering for seamless screen reader integration on Mobile and Desktop devices across diverse systems and browsers.
- Optimized reference screenshots for browser compatibility with a custom DOM-based cropping function, reducing image file sizes 10x.

#### Virtual Market Coach (September 2021 - March 2022)

- Solo-developed a full-stack internal tool on Expedia Partner Central, streamlining property queries and debugging for all users, including non-tech personnel.
- Implemented a sophisticated error handling infrastructure for VMC Domain Service to provide comprehensive details about error causes and locations.

### FIBULAS, INC. AT BERKELEY SKYDECK PRODUCT MANAGER

September 2020 - December 2020 | Berkeley, CA

- Created a Django webapp deployed on AWS Elastic Beanstalk to help users of Fibulas' BioUSB cryopreservation technology to organize biospecimen records.

### LUNCHABLE, INC. AT BERKELEY SKYDECK FULL STACK INTERN

May 2020 - August 2020 | Berkeley, CA

- Managed the SWE team of 6 interns and oversaw full stack development of Lunchable's new webapp to help college students meet new people virtually.
- Built a Django backend connected to AWS RDS to email notifications templated in HTML/CSS on Sendgrid server, scheduled asynchronously via Celery.
- Created a React.js landing page and deployed on AWS Elastic Beanstalk.

## NOTABLE PROJECTS

### 2D SMOKE SIMULATOR Summer 2020 | CS184

- Created a 2D smoke simulator using Three.js and WebGL modelling a fluid system with zero viscosity based on the Navier-Stokes equations.
- Implemented GUI to control which internal value (eg. temperature) colorized.

### LUNCHABLE APP Spring 2020 | PDAB, consulting for Lunchable, Inc.

- Integrated a chat feature on the Lunchable mobile app with Flutter frontend and MongoDB backend for matched users.
- Processed thousands of data points and wrote a DP algorithm in Python to match people for virtual meet-ups during the 2020 COVID19 shelter-in-place order.

### ROLL CALL Spring 2019 | PCS @ Berkeley

- Developed open source Python package to visualize voting blocs determined by ML clustering algorithms on the network graph representation of the US Congress.