

# KEVIN KANG

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## EDUCATION

### Brown University

Providence, RI

B.S. COMPUTER SCIENCE, GPA 3.8

SEP. 2019 - MAY 2023

Relevant Coursework: Data Structures, Object-Oriented Programming, Computer Systems, Deep Learning, Computer Vision, Machine Learning, UI/UX, Data Science, Artificial Intelligence, Software Engineering, Software Security, Discrete Mathematics, Statistical Inference, Linear Algebra

## EXPERIENCE

### Amazon / AWS

Arlington, VA

SOFTWARE DEVELOPMENT ENGINEER INTERN

MAY 2022 - AUG. 2022

- Developed a Java microservice which retrieved 300+ S3-stored JSON documents via Elasticsearch using Jaccard and Levenshtein inspired algorithms
- Implemented 2 RESTful APIs with Smithy and TypeScript via API Gateway and Lambda, integrating into existing microservices and boosting efficiency
- Conceived and developed the project's architecture and business logic from scratch, earning an 'exceeds expectations' rating in performance review

### Brown University

Providence, RI

UNDERGRADUATE TEACHING ASSISTANT

SEP. 2021 - MAY 2023

- Instructed 500+ students across three courses (CS1951a, CS111, DATA80), leading labs, conducting office hours, grading assignments, and mentoring final projects, covering topics from Racket and Python programming to machine learning, SQL, and Bayesian probability

### Syntouch Inc.

Los Angeles, CA

SOFTWARE ENGINEER INTERN

JUN. 2021 - AUG. 2021

- Architected an interactive client facing Jupyter Notebook dashboard with ipywidgets, featuring advanced filtering across 10+ attributes and 5+ graph types, and customized integration of Seaborn's spider plot and strip plots for optimized data visualization
- Enhanced data reports for 3+ Fortune 100 clients by developing individualized interactive graphs, elevating client analysis and insight

### Idealab

Pasadena, CA

RESEARCH INTERN

JUN. 2018 - AUG. 2018

- Engineered image capture program in Python to capture over 1,000+ images, enhancing data set for a computer vision recognition algorithm
- Optimized Elementary Robotics' Intel 3D Realsense Camera for object recognition training on Robotic arm through manual calibration

## TECHNICAL SKILLS

**Languages** Python, Java, C, Typescript, Javascript, SQL, Scala

### Frameworks and Tools

Git, React, ~~TeX~~, Tensorflow, HTML/CSS, AWS (Lambda, API Gateway, CloudWatch, Cloudformation/CDK), Jupyter, Pandas, NumPy, Beautiful Soup, sci-kit learn, Matplotlib, Microsoft Suite, Google Suite

## PROJECTS

THROUGH THE CENTURIES: CLASSIFYING GENRES OF ART | *Python, Tensorflow, Pandas*

NOV. 2022 - DEC. 2022

Constructed a CNN painting genre classifier using Python and TensorFlow within a Jupyter notebook environment, with a base model of ResNet50, retraining two additional dense layers to achieve a 99.64% training and 58.14% testing categorical accuracy

CROSSWORD PUZZLE EDITOR | *HTML/CSS, JavaScript, Google Firebase*

MAR. 2022 - MAY 2022

Developed a Crossword Puzzle Editor using React.js and CSS with Google Firebase for user authentication and web hosting; features include predictive on-click auto-complete, cardinal navigation, and real-time storage/retrieval of puzzles

BANG! FROM WAY DOWNTOWN | *Python, Pandas, SQL*

FEB. 2022 - MAY 2022

Analyzed relationships between NBA player statistics (e.g., PPG, Win Share) and salaries for over 250+ players using Pearson correlation, Two-sample T-test, and linear regression – assisting NBA franchises in predicting player value based on performance metrics relative to salaries

## LEADERSHIP

### Asian American Political Alliance (AAPA)

Providence, Rhode Island

EXECUTIVE BOARD AND FOUNDING MEMBER

OCT. 2019 - DEC. 2022

- Directed weekly club meetings and notably spearheaded outreach and orchestration for a 40+ attendee Zoom event featuring Congresswoman Judy Chu
- Facilitated and executed 13+ club-AAPA joint donation matching campaign for racial and social justice with total funds exceeding 8,000+ USD