

Colin Kwon

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EDUCATION

University of California, Irvine

B.S Computer Science

Irvine, CA

June. 2027

EXPERIENCE

Software Engineer Intern

Aug. 2024- Dec 2025

M.K Lending

Brea, CA

- Built a loan-lookup REST API/interface using TypeScript, and Node.js, reducing calculations by 4 hours per day.
- Made a rate-sheet ingestion pipeline with Python, pandas, and PostgreSQL, saving 3 hours of processing.
- Created a dashboard tracking employee's loans using React, PostgreSQL, and TypeScript for 5+ managers.

Technical Lead

Dec. 2025-Present

TENA

Los Angeles, CA

- Spearheading full-stack development using React and Node.js, managing the technical roadmap for developers.
- Orchestrating Agile sprint cycles and task delegation, maintaining high development velocity and ensure delivery.
- Architected a PostgreSQL JSONB schema for dynamic user configs, meeting 100% of stakeholder requirements.

Software Engineer

Sep. 2024 - June 2025

Commit the Change

Irvine, CA

- Developed a full-stack volunteer tracking dashboard using React, Chakra UI, and Node.js used by 5+ managers.
- Built backend API and schemas using PostgreSQL, Axios, and TypeScript to build volunteer tracking tables.
- Optimized case manager table loading latency using React improving load times by 30 sec. compared to 40 sec.

Software Engineer

Sep. 2025 - Present

Commit the Change

Irvine, CA

- Building a full-stack platform with React and Node.js for Celebrating Life CHC to serve 100+ local patients.
- Engineered an admin approval flow using Google OAuth and TypeScript APIs, reducing onboarding time by 40%.
- Developed RESTful CRUD routes for location management in Express, improving data retrieval speed by 25%.

PROJECTS

Genome Sequencing | *Python, Python AI libraries*

Oct. 2025 - Dec. 2025

- Constructed a data pipeline that conjoined Humsavar and dbnsfp5.3a using DuckDB, pandas, and Python increasing learning models f1 scores by 70%.
- Contributed the data exploration of data using seaborn, pandas, and Matplotlib increasing data readability.
- Developed a neural network learner using Python, Pytorch, pandas, and Sklearn with a F1 score of roughly 70.

Tumor Classification based Scans | *Python, Pytorch, SKlearn, Pandas, Github*

Oct. 2025 – Dec. 2025

- Created a residual neural network using Sklearn, Pytorch, and Python with an f1 score of roughly 99.
- Implemented a grid search using pandas, Matplotlib, and Pytorch optimizing the residual neural network by 30%.
- Implemented a grad cam for residual neural network using Sklearn, pytorch, and PTL reaching correlation of .67.

Reel In | *JavaScript, TypeScript, CSS, React*

Oct. 2024 – May 2025

- Developed a full-stack platform for students to find projects using JavaScript, CSS, and React used by 50 students.
- Created REST API routes for project page using PostgreSQL, React, and JavaScript increasing use by 50%.
- Implemented navbar, modals, and cards using React, CSS, and JavaScript reused by 5+ developers on the team.

AWARDS

Campus wide Honors Collegium at UCI

Dean's Honor List

TECHNICAL SKILLS

Languages: Java, Python, C/C++, SQL (Postgres), JavaScript, HTML/CSS, TypeScript, Assembly

Frameworks: React, Node.js, Next.js, Zustand, Chakra-UI, Radix-UI, Amazon Web Services

Developer Tools: Git, Visual Studio, Platform IO, PyCharm, Eclipse, Jupyter Notebook, Google Colab

Libraries: pandas, NumPy, Matplotlib, Sklearn, tensorflow, DuckDB, pyTorch