Daniel Kim

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EDUCATION

University of California, Davis — Davis, CA

Bachelors of Science in Computer Science / Statistics, Minor in Mathematics — Sep 2022 – Jun 2025 | GPA: 3.98

Relevant Coursework: Software Development & OOP, Computer Org. & Machine-Dependent Programming, Data Structures & Algorithms, Probability & Statistical Modeling, Algorithm Design & Analysis, Computer Architecture, Stochastic Processes

EXPERIENCE

Software Engineer Intern — Jan 2024 – Present
Volt — *Tulsa, OK*
- Developed a **React Native** mobile application, integrating a dynamic frontend with backend API endpoints using **Express.js** and **TypeScript**, utilizing **Apollo GraphQL** for API queries to Volt's SMS services
- Designed a system implementing a **Firebase Realtime Database** with webhooks to optimize app performance and user experience by minimizing storage consumption while ensuring seamless live messaging

Undergraduate Research Assistant — Dec 2023 – Present
Computational Communications Lab @ UC Davis — *Davis, CA*
- Conducted in-depth research and testing on diverse **Natural Language Processing** models for **Intent Classifiers** and **Sentiment Analysis**, identifying left or right-leaning ideologies in news articles and comments
- Designed an automated web scraping system using **Python** and **Playwright**, encapsulated in **Docker**, with **CRON** scheduling for efficient extraction of articles and users, scraping **12,000+** news articles and **6,000+** users

Software Engineer Intern — Jul 2023 – Present
California National Primate Research Center — *Davis, CA*
- Developed **Android** applications in **Kotlin** to enhance data collection efficiency by **30%** for researchers observing and recording primate behaviors and interactions
- Optimized **Java** based application used to conduct intelligence tests on primates by improving data collection processes to more effectively track and analyze learning patterns, improving primate learning by **20%**

Director of Technology — Jun 2021 – Aug 2022
Curieus — *San Jose, CA*
- Developed computer science curriculum that reached **3000+** students of underrepresented communities in STEM
- Led the development and delegation of lesson plans across the curriculum team, coordinating efforts among **10+** peers through a hands-on approach and regular strategy meetings
- Spearheaded a technology-focused event at the Boys and Girls Club, educating **100+** students on CS fundamentals

Embedded Software Engineer — Jul 2021 – Aug 2021
Cosmos Summer Program @ UC Davis — *Davis, CA*
- Engineered Gesture Detector in **C Programming** to detect alphabet letters written by microcontroller (**MSP432**) with **95%** detection accuracy, using accelerometer data and gesture state machine to register movements
- Developed a Confidence Booster using **C Programming** for Tae Kwon Do students, capturing sound volume via microphone to display levels wirelessly on an Adafruit gauge, boosting participation by **55%**

Software Engineer Intern — Jun 2019 – Jul 2019
Omniscient CRM — *San Jose, CA*
- Established Linux-based local testing environment for CRM dashboard, configuring a **LAMP** (Linux, Apache, MySQL, PHP) server to streamline development processes and enhance product quality assurance
- Crafted email templates in **HTML/CSS** to enhance user engagement and brand appeal, viewed by **300+** clients

HACKATHON PROJECTS

BeSustainable @ UC Santa Cruz | *Next.js, JavaScript, MongoDB* - Sustainable Food Choices — Jan 2024
PawPals @ UC Berkeley | *React.js, FastAPI, Python, SQLite3* - AI Travel Itinerary Builder — Oct 2023
Jotter @ University of Waterloo | *Svelte, TypeScript, FastAPI, Python* - AI-Powered Note Taking — Sep 2023
Interact @ Stanford University | *Godot, GDScript* - ADHD Diagnosis Video Game — Feb 2023

TECHNICAL SKILLS

Languages: C++, C, Python, Java, Kotlin, JavaScript, TypeScript, R, MATLAB, HTML/CSS, Assembly, PostgreSQL
Frameworks: React.js, React Native, Node.js, Express.js, Material-UI, FastAPI, Next.js
Developer Tools: Git, GitHub, GitLab, Jupyter Notebook, VS Code, Android Studio, pgAdmin, Linux, MongoDB
Libraries: Pandas, NumPy, Matplotlib, Seaborn, Plotly, BeautifulSoup, SciKit-Learn, OpenCV, YOLO, SQLite3