Steven Bash

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EDUCATION

University of California, Los Angeles (UCLA) — **Los Angeles, CA**
B.S. in Computer Science; GPA: 3.73 (as of Summer 2023) — *Expected Graduation: December 2024*

Moorpark College — **Moorpark, CA**
A.S. in Computer Science, Physics, Mathematics, Natural Sciences, & Humanities; GPA: 4.0 — *May 2022*

SKILLS & RELEVANT COURSES

Languages & Technologies: Python (PyTorch, Selenium, Pandas), JavaScript (TypeScript, React, NextJS, Node.js, Express.js), C++, Java
Skills & Services: GitHub, Vercel, AWS Amplify, Postman, Mailchimp, Microsoft Azure & Intune, Adobe Creative Cloud
Courses: Software Construction, Data Management Systems, Web Development, Discrete Structures, Linear Algebra, Statistics

WORK EXPERIENCE

Resident Assistant, UCLA — **September 2023 – Present**
- Supervise and ensure safety of over 60 residents living in an on-campus dormitory
- Foster community growth through programming events to promote social and academic success of residents
- Mediate and resolve conflicts while upholding on-campus housing regulations
- Develop and maintain community website for residents to have easy access to residential life information

Information Technology Specialist, El Camino Real Charter High School (ECR) — **February 2020 – September 2022**
- Lead programmer on team of 8, responsible for developing Python scripts and Web Applications; selected projects below
- Managed 4,000 Windows devices with Microsoft Intune; managed users and applications with Microsoft Azure Active Directory
- Developed clear, concise, and effective documentation and video tutorials for 300 staff, 3700 students, and parents
- **MyECR, my.ecrchs.net** — **March 2022**
  - Designed portal for 5000+ stakeholders with NextJS (React), NextAuth, Framer Motion, Tailwind CSS, & Microsoft Azure AD SSO for easy access to resources and applications & to simplify ECR's single-sign-on system
  - Implemented role selection (staff, student, parent, etc.) and search features
  - Deployment resulted in 90% less tech tickets related to users finding, accessing, and signing into applications; redirected $7,000 back to annual budget for other educational expenses
- **COVID Alert** — **October 2021**
  - Created system with Python, SQL, Web Scraping, Postman for API testing, Litmus to design email templates, & SMTP via Gmail to email stakeholders not in COVID Testing compliance and email school administration with a daily summary
  - Enabled swift action when 460 positive cases were identified, which kept the case rate under 1% during the school year; saved valuable time through automated data collection and distribution
- **Mailchimp Contact Sync** (Integration with Aeries Student Information System) — **July 2020**
  - Developed script with Python, Aeries SIS REST API, Mailchimp REST API, & Postman for API testing to add student and parent contact information to Mailchimp platform; relevant demographic and program information added to each student's profile
  - Automated manual process; achieved 100% accuracy in mailing list via daily updates; created ability to send targeted emails

TECHNICAL PROJECTS

ClubHub — **March 2023**
- Collaborated with a team of 5 to develop a full-stack web application using NextJS and Firebase to provide centralized student experience for managing involvement in organizations and events on campus

IEEE PocketRacers — **October 2022 – June 2023**
- Worked on a team of 3 to assemble and program an autonomous vehicle that can navigate a racetrack without human assistance
- Programmed a Raspberry Pi with Python for computer vision and to control servo motors

Bruin.LA — **December 2022 - Present**
- Developed a website with NextJS and TailwindCSS to post protected links for UCLA students
- Integrated with UCLA Google Workspace using NextAuth to restrict access to areas of the site to UCLA students

Single Digit Image Classifier (Machine Learning) — **November 2022**
- Collaborated on a team of 2 to develop and train a neural network digit classifier on the MNIST dataset with PyTorch
- Achieved 97.68% accuracy using four fully connected layers, the Cross Entropy Loss function, and the Adam optimizer
- Presentation to discuss design rationale, layers used, how we trained it, iterations, and our training/testing accuracies

Block-E the Dancing Robot, 2022 HAcK at UCLA Accelerator, First Place Winner — **July 2022**
- Designed a robot capable of driving through a field of play, picking up/carrying blocks, & dancing in a 72-hour hackathon
- Worked on team of 3 as programming lead; responsible for developing code for Arduino Uno and ESP32 boards
- Designed the electrical configuration for connecting motors and LCD display to the Arduino Uno and ESP32
- Submitted design review presentation and prototype for HAcK 2022 competition

LEADERSHIP EXPERIENCE & ACTIVITIES

- Actions Speak Louder Than Guns Campaign, Los Angeles City Hall — July 2018 – Present
- Moorpark College President's Student Leadership Forum — August 2021 – May 2022
- USC DTEM (Disruptive Technology with an Entrepreneurial Mindset) Summer Class — June 2021