Steven Bash

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EDUCATION

University of California, Los Angeles (UCLA)   **Los Angeles, CA**
BS Computer Science, B.S.   *Expected June 2024*

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

SKILLS & RELEVANT COURSES

Languages & Technologies: Python (Selenium, Pandas), JavaScript (TypeScript, React, NextJS, Node.js, Express.js), C++, Java, SAML Auth
Skills & Services: GitHub, Vercel, AWS Amplify, Postman, Mailchimp, Microsoft Azure & Intune, Adobe Creative Cloud
Courses: Web Development, C++, Computer Architecture, Discrete Structures, Electricity & Magnetism, Linear Algebra, Statistics

WORK EXPERIENCE

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 staff, students, and parents
- **MyECR, my.ecrchs.net**   **March 2022**
  - Designed portal 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
- **Student Attendance Alert**   **January 2021**
  - Built system with Python, Aeries SIS REST API, Postman for API testing, Litmus to design email templates, & SMTP via Gmail to email attendance alerts to parents for student absences and a daily attendance summary to school admin
  - Allows administrators and stakeholders to easily stay up to date on student attendance and provides insight to address chronic tardiness and absenteeism
- **Mailchimp 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 previous manual process; achieved 100% accuracy in mailing list via daily updates; created ability to send targeted emails since student demographic information is included in their profile

TECHNICAL PROJECTS

Machine Learning   **September 2022 – December 2022**
- Collaborating with a small team to develop and train a neural network digit classifier with PyTorch

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

Personal Website, sbash.net   **June 2022**
- Designed & developed website with NextJS, Framer Motion, Tailwind CSS, & Contentlayer to showcase my projects and accomplishments; modular approach allowing content and individual components to be updated independently

Asset Management Application   **December 2021**
- Created & developed application with ExpressJS, MySQL, & Bootstrap to track items in/out of inventory & who borrowed each item

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