

Dylan Wilbur

✉ dylanwilbur@g.ucla.edu | ☎ 8184820865 | 📍 Los Angeles, California | 🌐 dylanwilbur.github.io

Education

UCLA

BS IN MATHEMATICS OF COMPUTATION | EXPECTED 2024

GPA: 3.9

Westwood, CA

2020 – 2024

RELEVANT COURSEWORK:

Algorithms and Data Structures in C++; Computer Organization, Operating Systems, and Architecture; Software Construction; Multivariable Calculus; Linear Algebra; Machine Learning; Real Analysis; Data Science; Numerical Analysis

ATHLETICS

Full time D1 Athlete in 3 sports (Cross Country, Indoor Track, Outdoor Track).

Skills

Languages: Python, C++, Swift(iOS), SQL, Bash Scripting, Ruby(on Rails), JavaScript, HTML5, CSS3, Java, L^AT_EX, Assembly

Technologies: Numpy, Pandas, React.js, TensorFlow, Git, MySQL, Postgres, Docker, Elasticsearch, Kibana, Jupyter Lab

Proficient In: Graphic Design(Photoshop), Microsoft Office, Linux, Agile Project Management, Video Editing(Adobe Premiere)

Projects and Work Experience

NASA Jet Propulsion Laboratory

SOFTWARE ENGINEERING INTERN

June 2022-August 2022

- Developed interactive dashboards for the NASA's Multi-Mission Algorithm and Analysis Platform (MAAP), allowing science users to quickly draw insights from their large-scale data processing
- Utilized the Elastic stack(ELK) for near real-time analytics of algorithms being performed across distributed processing clusters in AWS and NASA HPC
- Built a Jupyter Lab extension in the MAAP Eclipse Che environment with a configurable Elasticsearch endpoint, allowing for portable data visualization

Injury Info App

LEAD FULL-STACK DEVELOPER

September 2021-Present

- Designed an interactive web based sports medicine app to help diagnose sports related injuries
- Utilized Passport.js to create a secure user authentication service
- Created CRUD actions for our models with an industry standard RESTful API
- Implemented using MongoDB, React, ExpressJS, and Node.js

Cybersecurity Competitions

acmcyber.com

ACTIVE MEMBER OF UCLA ACM CYBER

August 2020-Present

- Placed in top 3% nationally in MetaCTF CyberGames and top 3 at UCLA in quarterly cybersecurity tournaments
- Achieved 2nd place as a team in the UCLA CTF After Dark

Glendale Educational Foundation Summer School Registration App

cventerprises.org/1gefsummer.html

LEAD DEVELOPER, PROJECT MANAGER

June 2019 – December 2020

- Built an E-Commerce solution for class registration using Ruby on Rails
- Managed a system that processed over 500 registrations of users and generated over \$100,000 in revenue
- Implemented PayPal integration using a custom-built Ruby Gem
- Developed a secure administrator backend for managing course offerings, pricing, and dates
- Created a searchable, indexable data table for admin management of registration, statistics, and emergency contact information

CV Enterprises

cventerprises.org

CO-FOUNDER, LEAD PROJECT MANAGER

June 2018 - July 2020

- Co-founded an organization of over 50 members which helps high school students effectively deliver software products to local businesses and schools, giving them exposure to industry software development practices and Agile project management
- Designed and wrote a curriculum for a capstone class to encompass the organization; it has since been approved by the district board of education as a certified UC honors course
- Served as a software development mentor to kick-start other students' projects