RIT AGARWAL

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EDUCATION

University of California, Los Angeles (UCLA)

Bachelor of Science - Computer Science, Minor in Mathematics Awards - Gerald and Thelma Merit Scholarship Awardee 2024/2025 Expected June 2025

EXPERIENCE

Tatari | Software Engineering Intern

June 2024 - Sept 2024

- Designed and implemented a complex log ingestion pipeline on Kubernetes using Terraform, AWS, Docker and Grafana for monitoring and analysis of 20GB per day of Databricks job logs with Grafana dashboard and filtering.
- Implemented a custom linter using YAML to pre-emptively stop 100% error-prone commits and improving code quality
- Optimized AWS S3 storage using Terraform lifecycles and intelligent teardown, deleting over 60TB and saving over \$20,000
- Manufactured an Airflow monitoring and notification system using Datadog and Terraform to ensure critical jobs run hourly

Bruin Sports Analytics | Full Stack Web Developer

Jan 2024 - Present

- Developed a dynamic Tennis Scoreboard feature by integrating Data with the Youtube Player API
- Dynamically replaced a static pdf report with the **Python** Script creating the report
- Implemented a Firebase email and password sign in feature and authentication system to protect sensitive team data
- Debugged issues after a major change in JSON Schema introduced major bugs within the app

Pullscription LLC | Software Engineering Intern

June 2023 - Sept 2023

- Enhanced and debugged Python and MySQL data integration processes, reducing processing time by 60% and minimizing downtime
- Implemented a FastAPI systems for easier database access, facilitating creation of a user-friendly interface by frontend team
- Spearheaded the development of a custom system in **Python** to log errors in real-time, reducing response times during outages by 80%

Bruin Spacecraft Group | President

June 2024 - Present

- Collaborated with project leads and external advisors to apply for the NASA CubeSat Launch Initiative.
- Guided efforts to successfully collaborate with the UCLA Space Institute for support and funding
- Developed a comprehensive curriculum for our introductory lecture series and project for the growth of the UCLA community
- · Created marketing techniques to increase membership and member retention during presidential term
- · Led budgeting, fundraising (corporate and crowdsourced), and purchasing, documentation and internal process initiatives

Bruin Spacecraft Group | External Vice President

June 2023 - June 2024

- Managed a team of 12 for external affairs, overseeing corporate funding, UCLA events and School Outreach events
- Established 7 events, 1 industry advisor and 3 companies for payload, hardware integration and testing collaborations
- Garnered \$10000 in funding and working towards over \$60,000 in testing sponsorship

Bruin Spacecraft Group | Web Master

Oct 2022 - Sept 2023

- Managed 4 people for development and pipeline of club website, ensuring a more modern and user-friendly online presence
- Redesigned pages with updated information and styling, resulting in a 25% increase in new member acquisition through website

TECHNICAL SKILLS

- Programming Languages <u>Proficient:</u> Python(3+ yrs) JavaScript (3 yrs) C++ (3 yrs) <u>Beginner:</u> Java (1 yrs)
- Frameworks and Software Kubernetes, Docker, Node.js, FastAPI, React.js, Django, Airflow, Databricks, TensorFlow, Git, Linux, AWS
- Databases Firebase, MySQL, AWS S3, MongoDB

PROJECTS

HitchHiker | https://github.com/ritzz26/hitchhiker

- Utilized Typescript and OpenAI API to create a cutting-edge application empowering tourists to plan their future trips intelligently
- Established a Firebase Database for storing and displaying previous trips allowing users to explore trip options with different filters
- Implemented a user-friendly login page using Google OAuth with Google Authorization and Email/Password options to enhance security

Packwell Demo | https://github.com/ritzz26/Packwell_Dev

- Designed and published a demo website for Packwell Zimbabwe using HTML, CSS and JavaScript based on a pdf brochure.
- Hosted the site on Firebase for public viewing and researched DNS configurations for the company.

SoccerBros | https://github.com/ritzz26/soccor_bros

- Crafted an immersive 3D penalty shootout game using JavaScript catered to excitement of soccer enthusiasts
- · Engineered key features, including collision detection and scoring algorithms, scale designs, player aim guides, and 3D billboards

Monopoly | https://github.com/ritzz26/Monopoloy_Python

- Developed a Python application simulating the Monopoly game, utilizing OOP principles to model players, properties, and game events.
- Implemented core game mechanics such as property trading, rent calculation, and chance/community chest cards.