

Abhimanyu Warriier

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EDUCATION

University of California Davis - B.S. Computer Science (Senior Standing)

Sept 2022 - Dec 2025

Deans' Honor List (Fall 2022 - Spring 2024) GPA: 3.986

Relevant Coursework: Computer Architecture, Algorithm Analysis, Machine Dependent Programming, Algorithms and Datastructures, Combinatorics, Probability and Statistical Modeling for CS, Linear Algebra, Discrete Math for CS, Programming and Problem Solving(C), Software Development & Object-Oriented programming(C++)

WORK EXPERIENCE

Software Engineer Intern @ IBM (June 2024 - December 2024)

Skills - Python, React.js, Node.js, PostgreSQL, Javascript, Backend Dev, Full-Stack Dev, Automation

- **Platform Engineering Team (Cloud Pak for Data)**
- Reformatted Deferred Defects system for the Platform Dashboard by adding new fields (graphs and tables) for customer facing issues and updated backend code to filter data by new parameters
- Created new APIs to handle data on the platform's Cluster Portal and wrote new SQL queries to filter clusters and virtual machines by multiple parameters including addons, squad, and versions
- Wrote and updated python scripts to populate active cluster data and added a new system to access quotas for cluster use sorted by squad, which was used to update data summary graphs on the portal
- Developed new data schemas and tables in PostgreSQL database to better organize cluster information and increase efficiency, and automated table updating in the cluster python scripts

Software Development Intern @ Clocky LLC (June 2023 - Sept 2023)

Skills - Python, Django, Selenium, Web Scraping Libraries - BeautifulSoup, webDriver, Liquid, Shopify

- Worked on updating and developing functions in Python to find counterfeit products across multiple websites such as Walmart, Amazon, Ebay, Google, Alibaba, Mercari, etc.
- Used web scraping libraries to parse site data and grab images, used cv2 to compare fake images and record them based on match parameters, and sent data to frontend using Django
- Developed frontend screens to display counterfeits and updated website using Shopify (liquid)

PROJECTS

HackDavis 2024 Winner (2nd place overall) (April 27 - April 28) [github](#) [figma](#)

Skills - React Native, Javascript, HTML/CSS, Google Firebase, Firestore, Google Maps API, Reverse Geolocation

- Created a full-stack mobile application called nomad \wedge that allows users to drop pins and create hotspots when they see a homeless person in need or a displaced animal in their everyday lives
- Developed a fully functioning product using React Native, Google Firebase for Google authentication and the firestore database, and the Google Maps API
- Utilized the Haversine formula to create an algorithm that finds the closest animal or homeless shelter to a dropped pin and used React Native Linking to draft an email automatically to that shelter
- Implemented the Expo Reverse Geolocation API to automatically create the address of a pin
- Used Firestore to track dropped pins and user data such as user drop numbers and made sure to implement real-time updates for all app users whenever a new drop gets posted

Backend Software Engineer @ Training Tool (January 2024 - June 2024)

Skills - Java, Spring Boot, PostgreSQL, Postman, JPA Repository, AWS, Kubernetes, API Development

- Completely rebuilding the backend for UC Davis CodeLab's internal training tool using Java Spring Boot and PostgreSQL
- Built Models, Controllers, and Services for different training tool components such as courses, modules, progresses, users, and more
- Developed fully functioning CRUD routes for accessing data from our PostgreSQL database based on many different parameters and response types
- Working on combining with our existing front end and implementing AWS real-time video streaming to enhance productivity and lesson accessibility for members

Mobile Application Developer @ Truckpedia (Sept 2023 - Dec 2023)

Skills - Typescript, Rest APIs, React Native, Javascript, HTML, CSS, JSON, Postman, Fullstack SWE

- Worked on developing a mobile version of the Truckpedia Web Application as part of a project with CodeLab UC Davis
- Built multiple screens to align with predetermined Figma designs in react native and put them together with a navigation bar
- Worked to implement backend routes and get/post data from the company's database and used them to populate our screens
- Put together a functioning application with a simple user flow and backend integration

Mesha Productivity Master (June 2023 - Sept 2023) Tool: [mesha](#) Images: [img1](#) [img2](#) [img3](#)

Skills - React.js, Node.js, Firebase, Firestore, Tailwind.css, Quill Editor, Collections, dnd-kit, React DND

- Developed a web application that streamlines productivity through the use of a Binder, a file structure like system in order to arrange projects, classes, or files while being able to edit/track progress
- Created a React.js frontend using a firestore database which integrates a nested collection structure
- Built the ability to use due dates, large file hierarchies, color-coded classes, progress trackers, comment system, note-taking framework (quill)

Davis Triceratops Mobile Application @ CodeLab UCD (Sept 2022 - June 2023)

Skills - React Native, JSON, API Development, Mongoose Web Server, Axios, Express.js, Google authentication, Jira, Notion Productivity Software, React.js, JavaScript, Cascading Style Sheets (CSS)

- Developed an app used by over 3500 users and a total of 750 triceratop hunts
- Created backend routes to MongoDB database using express and Axios, implemented google authentication, and used AWS S3 database for images
- Created front end pages using react native such as the Profile, Login, and Google Maps pages
- Used Git, Jira Kanban boards, and Notion software to track progress and review code

SKILLS

Programming Languages: Java - Python - C - C++ - Javascript - Dart - HTML - CSS - SQL - Microsoft SQL Server - PostgreSQL - Shell

Frameworks/DB: React.js - Node.js - Tailwind.css - Flutter - Express.js - React Native - Firebase - MongoDB - AWS - Django - Typescript

Other: Git - Jira - Google Cloud Platform - Expo - Notion - Algolia - MySQL - Docker - Jenkins