APURVA SHAH

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EDUCATION

University of California, Los Angeles (UCLA), Los Angeles, CA   Expected June 2024

B.S. Cognitive Science - Computer Science

- 3.978 Cumulative GPA
- Data Structures & Algorithms, Computer Architecture, Machine Learning, Web Development, Software Construction, System Design
- Deans Honor List - 2020, 2021, 2022

EXPERIENCE

Bluebeam, Inc. | *Software Engineering Intern*   June 2022 - September 2022

- Designed and implemented a distributed data pipeline architecture for cloud-based product capable of automatically classifying uploaded CAD documents to domains relevant to the construction industry
- Trained an object-detection deep learning model using Pytorch and created a proprietary natural-language processing algorithm to create a multi-step approach to efficiently categorize files with 96.6% accuracy
- Learned under a group of 10 engineers under the R&D department using Agile practices maintaining effective communication and product-delivery within workplace

UCLA David Geffen School of Medicine | *Software Engineering Intern - Volunteer*   July 2021 - July 2022

- Architected and implemented an automated Cardiopulmonary Exercise Test analysis software (ScaleCPET) capable of delivering brief analytical reports, currently licensed to the Pulmonary Department at UCLA Health
- Met with high-profile engineers in the industry such as Vyaire and Cosmed to discuss acquisition of ScaleCPET to address flaws and inadequacies within respective platforms
- Produced a time-series forecasting model to automatically correct and smooth errors in test-data, giving physician user-base 95% confidence in generated reports
- Tested Meta Connect VR platform by comparing health information to gold-standards in medicine to ensure 95% accuracy within information delivered to the customer-base

UCLA Mobile Clinic Project | *Clinical Technology Officer - Volunteer*   July 2021 - July 2022

- Built an inventory system using Django, SQL, Slack API, and Google Sheets API, reducing hours of manual tedious data entry while maintaining a reliable inventory of items clients require
- Devised and suggested architecture plan for scalable inventory system considering CAP Theorem, and other significant metrics enabling Los Angeles to keep track of over 40,000 unhoused individuals
- Conducted social histories and medical assessments for homeless clients and pushed for progressive legislative change regarding Municipal Code 41.18 in Los Angeles through the mayor's office

PROJECTS

ScaleCPET | *https://apurvashah.org/cpetanalytics*   July 2021 - Present

- Architected scalable, reliable system to process Cardiopulmonary Exercise test data using frameworks such as TimeSeriesDB, React, and Django
- Devised novel innovative algorithms and regression-based deep learning models using Tensorflow and ScikitLearn leading to generate accurate reports for physicians running Cardiopulmonary Exercise tests
- Built a Rest API framework with Django Rest allowing for scalable communication with other services at UCLA Health

Personal Portfolio | *https://github.com/lazarulian/personal-portfolio*   August 2022

- Designed personal portfolio website with mobile support using React, HTML, CSS, and JQuery
- Deliver engaging user experience through optimization of images, efficient animations within interactive elements, and the use of a sideloading pages using reactRouter
- Accommodate API calls for important services such as SignUp Genius and MailChimp building open lines of communication with site visitors

TECHNICAL SKILLS

- Programming Languages: C++ | Python | HTML | CSS | Javascript | SQL | NoSQL
- Technologies: AWS | React | MongoDB | CouchDB | SQL | Pytorch
- System Design: Database Design | Distributed Systems Design
- Tools: Git | Linux | Docker | AWS | Jira | Conda
- Software: MS Office Suite | Adobe Suite | Notion | Figma