

# Anand Surendra Masurkar

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## Education:

**Master of Science - Computer Science**, California State University, Sacramento, CA. GPA: 3.5 / 4.0 Jan 2020  
**Bachelor of Engineering - Computer Engineering**, University of Pune, India. May 2016

## Technical Skills:

**Software Development:** Python, Java (Prior exp), HTML5, CSS3, JavaScript, ReactJS, MySQL, Nginx, Apache Web Server.  
**Frameworks:** Django REST, Flask, Laravel, TensorFlow. **Cloud Computing:** AWS – EC2, RDS, Route53, S3, VPC, IAM, AWS-CLI  
**Programming:** Data Structures, Algorithms, Object Oriented Programming Concepts.

## Work History:

**Graduate Research Assistant (Volunteer)** March 2020 - Present

- Worked on decentralized AI model training with Ethereum blockchain.
- Ongoing work includes research on optimizing the implemented approach and publishing research findings.

**Software Development - CalPERS (Academic setting)** Jan 2018 - May 2018

- Developed a fully functional responsive paperless system to ease bid submission process using Laravel.
- Agile software development methodology was used to understand the software requirements and responsibilities at CalPERS. Software solution was developed in PHP and delivered to client for integration.

## Projects:

**A Scalable Microservice Based Architecture for e-Commerce Platform** July 2020 - Present

- Designing a solution having deployment strategy - service instance per virtual Machine/Container.
- Working on cloud services and technologies like AWS, Nginx, PostgreSQL, Docker, Django REST to build independent microservices and use orchestration service like Kubernetes.

**CancerNET - Breast Cancer Detection using AI** (Kaggle dataset, Flask, PostgreSQL, Heroku, Stripe) Sept 2019 - Oct 2019

- Developed a web application to identify the most common form of breast cancer (invasive ductal carcinoma).
- CNN is used to build an AI model for prediction. This application helps to reduce human errors and detection time.

**XPLOR 360** (Team size: 5, Lead) Sept 2018 - Dec 2018

- Designed a knowledge system to identify the learning path for students studying at Sacramento State University.
- I was responsible for identifying design issues in existing software and developing a new solution.
- Interactive Digital Mockup was presented to an audience of 30 explaining the process of interface design.

**Management System for Faculty and Students** (Distributed Systems) Jan 2018 - May 2018

- Developed an android application for academic communications between faculty and students.
- Implemented deadlock handling mechanism and transactions to provide database consistency.
- Technology stack: AWS EC2 (IIS web server), RESTful webservice in C#, Android application, SQL database.

**Comparison of e-Commerce Products using Web Mining** (MongoDB database, Django) Aug 2015 - May 2016

- Implemented a price comparison website to compare products sold on e-commerce sites.
- Features: Implemented cron job to periodically check for product updates on website, web scrape live prices of cellphones to be compared.

## Publications:

- Personalized Food Recipe Recommendation and Search “(IRJET) Vol. 4, Issue 12, December 2017 S.NO:323”.
- Comparison of E-commerce Products using web mining “(IJSRP), Volume 6, Issue 5, May 2016 Edition”.