

# HARSH MODI

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## EDUCATION

**MS (Honors) in Computer Science**, University of Southern California, Los Angeles - **GPA: 4.0/4.0**  
**Bachelor of Engineering in Computer Science**, Nagpur University, India

**Exp. Dec 2022**  
**May 2019**

## TECHNICAL SKILLS

- Programming Languages: Java, Python
- Web Technologies: Django, Flask, Node.js, HTML5, CSS3, JavaScript, Lambda, AWS, Google Cloud, REST APIs
- Database: MySQL, SQLite, Dynamo DB
- Tools and Applications: Oracle EBS Suite, Android Studio, Git, Jira, Tableau, Unity3D

## PROFESSIONAL EXPERIENCE

**Software Development Engineering Intern - Amazon**, Seattle, WA

**May 2022 - Aug 2022**

Technologies - Java, Android, AWS, Dynamo DB, Lambda, SNS, SQS, REST APIs

- Designed and implemented the group calling feature for the Alexa Together service
- Added the button and frontend logic to place a group call from the Alexa Together android application
- Built backend APIs triggered through lambda function to interact with internal services to enable group calling between android mobile devices and Alexa Echo devices through button click or Alexa voice command

**Full Stack Web Developer Intern - USC School of Pharmacy**, Los Angeles, CA

**Apr 2021 - May 2022**

Technologies - Python, Django, MySQL, HTML5, CSS3, Bootstrap, JavaScript, jQuery, AJAX

- Directed various aspects of planning, designing, and feature development using agile project methodologies
- Remodeled and implemented versioning system within website database structure to increase scalability
- Provided legacy database compatible solutions to complex and time-sensitive problems improving end-user experience

**Full Stack Web Developer - Sabertooth Technologies**, Nagpur, India

**Sep 2019 - May 2020**

Technologies - HTML5, CSS3, Bootstrap, JavaScript, AJAX, ReactJS, Python, Django, JS Libraries (particle.js, amCharts.js), AWS EC2

- Developed company website from scratch attracting 5 new clients within first month of deployment ([sabertoothtech.in](http://sabertoothtech.in))
- Revamped frontend for a College Management System web application product reducing loading speed time by 50%
- Collaborated with development team of a client to build requirements for an ERP system using Django and JavaScript

**Information Technology Intern - GE Appliances**, Bangalore, India

**Jan 2019 - June 2019**

Technologies - SQL, Oracle APCC, Oracle ASCP, Oracle Demantra, JIRA, Service Now, Git

- Ensured Value Chain Planning daily cycle Service Level Agreements (SLA) are met 99% of time with swift error handling
- Performed monitoring enhancements using SQL reducing 14 false alerts/week saving 5 man-hours/week
- Performed Performance Testing and Regression Testing for VCP Platform Upgrade leading to 5 critical bug discoveries
- Built new SOPs increasing the efficiency of the team and reducing time spent doing manual work by 35%

## PROJECTS

**AlumNextDoor** - Python, Django, JavaScript, HTML5, CSS3, Bootstrap - [alumnextdoor.com](http://alumnextdoor.com)

- Co-Founded and single-handedly developed a web platform to help MBA/MS college applicants connect with alumni from their dream colleges for college application assistance
- Onboarded 40+ alumni from top-ranked schools and helped 100+ applicants get assistance

**Stock Market Evaluator** - Alpha Vantage API, amCharts.js, HTML5, CSS3, JavaScript - <https://stockinformation.netlify.app/>

- Architected and built a web tool that shows stock-related statistics for companies in the stock market
- Utilized Alpha Vantage API to fetch real-time stock statistics and populate them into tables and charts using amCharts.js

**MedPharm** - Java, SQL, XML, Google Firebase, Android Studio

- Led a team of 4 students to build an android app that allows doctors to create/send a digital prescription to patients and helps patients find nearest pharmacy with prescribed medicines available by database and Google Maps API integration
- Improved patient knowledge through articles and generic drug alternatives by integrating trusted online databases

**Others** - Video Game (<https://aether-official.netlify.app/>), Event and Task Manager ([dailytaskmanager.herokuapp.com](https://dailytaskmanager.herokuapp.com)), Wikipedia Donation Calculator ([fair-donation.com](http://fair-donation.com))

## RESEARCH

**"Classification of Facial Images into Adult or Minor Categories using Facial Features"**

- Led a team of 4 students to develop software that classifies humans into two categories – 'Adults' and 'Minors' to provide controlled access to content based on age of a person for security and surveillance
- Implemented contrast correction, noise removal, and facial feature extraction using median filtering technique and Cascade Object Detector and achieved a 95% accuracy using the SVM classifier