# HARSH MODI

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## EDUCATION

**MS (Honors) in Computer Science**, University of Southern California, Los Angeles - GPA: 4.0 — Dec 2022
**Bachelor of Engineering in Computer Science**, Nagpur University, India — May 2019

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## 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

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## 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 scalable customer critical group calling (audio + video) feature for the Alexa Together service
- Leveraged existing architecture and built asynchronous backend services and APIs using Java triggered through Lambda function to interact with internal services to enable group calling between android devices and Alexa Echo devices through button click or Alexa voice command
- Integrated Dynamo DB storage functionality to maintain relationships between members of the group call

**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 a versioning system within the website database structure to increase and speed up scalability to future versions by up to 75%
- Provided legacy database-compatible solutions to complex and time-sensitive problems improving end-user experience and code-base quality

**Full Stack Web Developer - Sabertooth Technologies**, Nagpur, India — Sep 2019 - May 2020
**Technologies** - HTML5, CSS3, Bootstrap, JavaScript, AJAX, ReactJS, Python, Django, JS Libraries, AWS EC2
- Developed company website from scratch using HTML, CSS, JavaScript, Django, and different API integrations attracting 5 new clients within first month of deployment ([sabertoothtech.in](http://sabertoothtech.in))
- Revamped frontend for a College Management System web application reducing loading speed time by 50%
- Collaborated with development team of a client to build requirements for an ERP system using Django, 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 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 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%

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## 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 - [stockinformation.netlify.app](http://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

**U-Help** -  Firebase, GCP, Google Maps API, HTML, CSS, JavaScript - [Working Demo](#), [GitHub Repository](#)
- Built a platform for refugees to post about any sort of help required by them and for volunteers to respond to these requests and also post about help being provided by them
- Used firebase to maintain a database of requests by refugees and help being offered by volunteers
- Incorporated a 'distress call' button for refugees to quickly voice required their problems and send their location to all the nearby volunteers for immediate assistance by integrating Google Maps API and Web Speech API

**MedPharm** - Java, SQL, XML, Google Firebase, Android Studio - [GitHub Repository](#)
- Led a team of 4 students to build an android app that allows doctors to create/send a digital prescription to patients using Bluetooth 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 ([aether-official.netlify.app](http://aether-official.netlify.app)), Event and Task Manager ([harshmodi02.pythonanywhere.com](http://harshmodi02.pythonanywhere.com)), Wikipedia Donation Calculator ([fair-donation.com](http://fair-donation.com))