ADITI SWAROOP

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EDUCATION

University of Southern California   January 2019-December 2020
Master of Science - Computer Science **|** GPA: 3.7/4.0

SRM University, India   August 2011-May 2015
Bachelor of Technology - Computer Science & Engineering **|** GPA: 8.95/10.0

SKILLS

Programming Languages: Java, Swift, C, C++, C#, Python, SQL **|** **Web Technologies**: Angular, ReactJS, NodeJS, JavaScript, jQuery, Bootstrap, MaterialUI, Typescript, HTML, CSS, REST API, iOS, Android, Three.js, Vue.js **|** **Frameworks & Tools**: Apple ARKit4/SceneKit, MVC, Entity Framework, ASP.NET, Git, Xcode **|** **Prototyping:** Figma, AdobeXD **|** **Cloud Platform:** AWS **|** **Database:** SQL Server, MongoDB, MySQL
Areas of interest: Frontend **|** Full stack **|** Web Applications **|** Mobile **|** Backend

WORK HISTORY

Software Developer Intern, Opal AI Inc   June 2020-Present

Developing and launching the MVP iOS app for this fast-paced startup by itemizing business requirements based on precedence. **Single-handedly** steering the software development by contributing to architecture and design followed by coding solutions to set up the end to end application pipeline.

Software Developer (Jr. Product Specialist), Cognizant   January 2016-November 2018

Surpassed entry-level trainees in skill assessments to **stand amongst top 50 candidates nationwide** selected for self-learning 'Fastrack Training'. Responsible for designing and implementing solutions to support multi-tiered workflow migration from a legacy system to Facets®, a claim administration and management tool, for a health insurance client: Wellmark BCBS.

PROJECTS

Scan2Plan, Opal AI   *Swift, ARKit4, Java, C#, Three.js*
- Developed an iOS app to scan a building and obtain its 3D model **within microseconds**, implementing Apple ARKit4 scene reconstruction to capture depth data from the LiDAR sensor on the device along with standard RGB images. The 3D model is utilized to estimate an accurate floorplan of the building, thus reducing the **cost and time of floorplan generation by 80%**.
- Accomplished resolving technical challenges in designing a solution to bridge the iOS app with floorplan software solutions like AutoCAD and Revit. Built a web application to visualize the 3D model/point cloud generated from the app and make measurements.

Corona Token, personal project   *MERN Stack*
- Created a token-based reservation system to restrict overcrowding public locations like libraries, museums, parks etc., across LA city and practice **social distancing.** Project also includes a dashboard with coronavirus trends specific to regions in LA using data crawled from LA county's official public health website

Open Sesame, USC Annenberg Innovation Lab   *HTML, CSS, Vanilla JS, jQuery*
- Spearheaded a web game application to simulate environments of resource and personnel abundance vs scarcity and analyze how users interact with the system.
- Extended the project to build a recommendation system serving, ALANA as an intervention to nudge decision-makers to increase information sharing in such competitive environments.

Winbook 2.0, USC CSSE   *Angular, NodeJS, MySQL*
- Re-built the existing requirements gathering and negotiation tool, "Winbook", from scratch to upgrade with a more intuitive and modern UI. The tool is **currently being used for software engineering class** at USC.

Weather Search Web and Mobile App, USC   *Angular, NodeJS, Android*
- Tapped Darksky API, Geocoding API and IP API to create Node.js endpoints and fetch weather details of a particular location. Data was curated to be displayed on the responsive website with features like autocomplete search, toggle between daily and weekly weather, save a location as 'favorite', visualizing weather data as interactive graphical charts, etc.

Program Management Office, Cognizant   *C#.NET, MVC, SQL, JavaScript*
- Envisioned and invented a web tool to handle project line of business tracking. The tool also includes budget & resource management, performance and data reporting through graphs and tracking utilization metrics.
- **Reduced 30 hours of manual work per week** by automating functionalities earlier handled by primitive tools.

Large Group Claim Migration, Cognizant   *Full stack C#.NET, SQL*
- Collaborated with the client as a part of various teams for this multi-year project to lead entire development life cycle and code SQL procedures/C# extensions on top of the current Facets® interface, tailored to business requirements.
- Brainstormed performance tuning solutions for existing procedures ensuring **100% impact free delivery** and gaining **15% to 30% increased efficiency** over residing ones.

ACTIVITIES

- **Course Producer, CSCI-420 Spring 2019**: Selected by Prof. Jernej Barbich to assist him in curating the computer graphics course at USC.
- **Basketball player, Team Captain** (SRM University): Led the school's women's basketball team at national level sports tournaments.