

## EDUCATION

<b>Master's Degree – Computer Science</b> <i>University of Southern California, Viterbi School of Engineering</i>	2020
<b>Udacity – Full Stack Web Development</b>	2020
<b>Bachelor of Technology – Computer Science</b> <i>Amrita Vishwa Vidyapeetham, School of Engineering</i>	2018

## SKILLS

**Languages:** Python, JavaScript, TypeScript, C++, C, C#, HTML/CSS, PHP and Java

**Web and Database:** Angular, NodeJS, Express, React, CanvasJS, Bootstrap, Android, MySQL, MongoDB, REST, SQLAlchemy, PostgreSQL, Flask

**Tools:** Git, STL, VR, Unity, ZeroMQ, NetworkX, LaTeX, Makefile, Unit-test, Docker, Kubernetes, AWS and Azure

**Machine Learning Libraries:** TensorFlow, NLTK, Pandas, NumPy, Keras, OpenCV, Sklearn and Matplotlib

## INDUSTRY EXPERIENCE

<b>Kaspect, Research Intern - HMD (Oculus), Unity, C#, Python, Flask, JS, Azure</b> • Crafted an interop process between ZeroMQ and Flask to orchestrate tele therapy sessions through VR. • Trained a 2-layer connected Neural Network to drive a Tendon-Driven robotic Leg and performed virtualization with TensorBoard.	May 2019 - Present
<b>Vigilance Risk Solutions, Consultant - COTS (Ruby on Rails, PostgreSQL)</b> • Engineered a software platform for client with a team of 7 as a life cycle planner under guidance of prof. <a href="#">Barry Boehm</a> . • Employed the <i>Incremental Spiral Model (ICSM)</i> to create life cycle and project plans. Prototyped the front-end.	Aug 2019 - Dec 2019
<b>Corto, Intern - NLTK, NetworkX, Python</b> • Modeled co-occurrence graphs on emotional tonalities from twitter and reddit audience data using NetworkX. • Automated and refactored large codebases to optimize performance by integrating with command line options.	May 2019 - Aug 2019
<b>National Remote Sensing Centre, Student Consultant - Python, Twitter API, MongoDB</b> • Devised a Proof of Concept for disaster and location identification on real-time twitter data.	Sept 2017 - Dec 2017
<b>Defense Research Development Organization, Research &amp; Innovation, Intern</b> • Devised an optimized constrained random number-based assembly trace generator for data hazard detection. • Attained a <i>Python</i> testing environment that serves as a baseline to gauge an out-of- order superscalar microprocessor performance.	May 2016 - Jul 2016

## PROJECTS

<b><a href="#">Weather Search application</a> – HTML5, Angular 2+, Node.js, Android (JAVA)</b> • Gained exposure in PHP, Angular 7, Node.js and Android by creating weather search application to fetch in-depth forecast details of cities using Dark Sky API and deployed on AWS Elastic Beanstalk. • <i>Tools used:</i> CanvasJS, ChartJS, HTML5, Bootstrap 4, Express.js, Google Image API's.	Aug 2019 - Nov 2019
<b>Coffee Shop - Flask, Ionic, Auth0, PostgreSQL</b> • Configured endpoints integrated with Auth0 for authentication and Ionic frontend. API testing tool, Postman to test endpoint. • Containerized and deployed a Flask API to a Kubernetes cluster using Docker, AWS EKS, CodePipeline, and CodeBuild.	May 2020
<b>Le Bistro – Flask, Heroku, Auth0, PostgreSQL</b> • Created an application to demonstrate the learning of API development, database modelling and authentication. Deployed on Heroku.	May 2020
<b>Fyyur - Flask-Migrate, SQLAlchemy ORM, PostgreSQL</b> • Constructed data models to power the API endpoints by connecting to a PostgreSQL database with schema migrations.	May 2020
<b>Trivia API - React, Flask, SQLAlchemy, Unit-test, PostgreSQL</b> • Structure plan, implement, and test API endpoints using Flask, SQLAlchemy and React frontend to consume the data from the server.	May 2020
<b><a href="#">Corona Chat Info</a> – HTML5, React, Typescript, Twilio, Python – Flask</b> • Created endpoints to send and receive messages through Whatsapp - Twilio and Flask server. • Implemented localization enabling translation to any local language of choice using <i>React-i18next</i>	Apr 2020
<b><a href="#">Connect</a> – HTML5, ReactJS, FastApi, Google Maps</b> • Ideated and built the UI and UX for application aimed to help daily wage workers find jobs in <b>COVID-19</b> . • Integrated Google Maps within React framework. Top 10 submissions for The Global Hack.	Apr 2020
<b>Street Safe – Android (JAVA), IBM-Watson, Twilio</b> • Developed an android app enables people to have meaningful conversations with a virtual assistant (IBM - Watson) • Incorporated Twilio to enable calling functionality to an emergency contact	Nov 2018
<b>Adventure Biofeedback – JavaScript, Flask-Python3</b> • Achieved live synchronous voice recording and audio transfer between patient and proctor.	Apr - May 2020
<b>Weenix, Operating System – C, GNU Debugger (GDB)</b> • Developed a non-preemptive kernel with a team of 4 and designed user shells to perform basic operations. • Implemented virtual file system, memory and synchronization for processes and thread switching.	Jan 2019 - Apr 2019