

EDUCATION

- MS in Computer Engineering (Computer Systems), Arizona State University** **Jul 2016 – May 2018**
Coursework: Algorithms, Artificial Intelligence, Database Management, Data Mining, Data Structures, Mobile Computing, Software Security, Statistical Machine Learning
- B. Tech in Electronics and Communications Engineering, VIT University (India)** **Aug 2012 – May 2016**
- Head of Technology at Technology and Gaming Club

EXPERIENCE

- Backend Software Engineer** **SimpleCitizen, Salt Lake City, UT** **Nov 2019 – Present**
- Designed and created new software features for the single page application using Python3, Django, GraphQL, PostgreSQL and Rest API's.
 - Modified existing database models to increase performance efficiency of CRUD processes that had complex cascading designs.
 - Implemented Single Sign On and Multi-Factor authentication using SAML for the enterprise side of the application.

- Jr Python Developer** **MarketDial, Salt Lake City, UT** **Jan 2019 – Nov 2019**
- Complete ownership of ETL workstreams; designed and developed complex data pipelines and maintained data quality
 - Optimized existing ETL processes and implemented a dynamic method of file selection for data loads.
 - Developed and maintained Python scripts and SQL queries to load 'clean' data into a PostgreSQL DB.

- Teaching Assistant** **Trilogy Education Services, Charlotte, NC** **Nov 2018 – Jan 2019**
- Assisted participants of the Data Analytics Bootcamp at UNC Charlotte with various technologies like Python, JavaScript, HTML/CSS, Machine Learning and many more.
 - Supported the instructor of the ongoing class with content delivery and grading of homework and projects.
 - Aided participants in reaching technical milestones thus inculcating a developer mindset in them.

Software

- Developer(Part-time)** **Stealth Gaming, Vellore** **May 2014 – May 2016**
- Made the website and implemented a web-based user management system using HTML, CSS, and JavaScript.
 - Maintained technical infrastructure and developed marketing solutions to increase revenue and customer loyalty.

SKILLS

- **Languages:** Python3, PostgreSQL, BigQuery, JavaScript, Kotlin, HTML5, CSS3,
- **Web Technologies:** Django, GraphQL, REST API's, Flask, Bootstrap, jQuery, JSON, MongoDB
- **Frameworks/Libraries:** PyTest, PyParse, scikit-learn, numpy, Pandas, matplotlib, faker
- **Tools & OS:** Git, Linux, Windows, Agile (Scrum), PyCharm, Google Cloud Services, AWS

PROJECTS

Airbnb New User Booking prediction:

(Tools: Python, scikit-learn, Numpy, Pandas, matplotlib)

- Created a classification model that predicted to which country a new user will make their first booking.
- Performed feature engineering and statistical analysis on the raw data, obtaining relevant insights.
- Programmed a blended ensemble of traditional classifiers (KNN, SVM, Logistic Regression) to enhance the performance of the model and compared this with traditional classifiers and XGBoost classifier.

Capture the Flag(CTF) Software Security Model:

(Tools: Python; PHP; HTML5; JavaScript; MySQL)

- Built tools and scripts to prevent various cybersecurity attacks like Buffer overflow, Path, SQL injection and Format string for a capture the flag event competing against other teams.
- Implemented a model to find XSS vulnerabilities in a website and automated XSS attacks, SQL injections on the other teams.