

# Siddhant Shrikant Gokule

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## TECHNICAL SKILLS:

**Programming Languages:** Python, Java (Proficient); JavaScript, SQL, HTML5, CSS3, PHP, R (Intermediate); C++, Go (Prior Exp.)

**Technologies:** MySQL, Spark, Hadoop, AWS S3/EC2, TensorFlow, AJAX, XML, JSON, Scikit-learn, PySpark, CUDA

**Frameworks:** Flask, Spring Boot/MVC, Django, REST, MapReduce, Bootstrap, VanillaJS, jQuery, Junit, NumPy, Shiny

**Tools:** Linux, Jenkins, Eclipse, VMware: vSphere, vCenter, ESXi, Postman, Git, R Studio, Maven, Atom, JIRA, Tomcat

## WORK EXPERIENCE:

**Software Engineer, Cisco Systems Inc., San Jose, CA**

May 2019 – Present

- Built **Python** utility to generate statistical reports, around **60%** faster, using **JSON** data from the server
- Developed script to fetch defect ID from **JSON** data of dashboard & update defect tracking system with **REST APIs**
- Add & enhance features of Dashboard, developed in **Python & Flask** framework, to track test suite execution status
- Created browser accessible tool that generates feature specific topology for a testbed **50%** faster as manual generation
- Using **Jinja2, Flask** and **Python** designed utility to track version Upgrade-Downgrade combinations and testing
- Deployed infra tools like **Jenkins** on **CentOS** and integrate them with Dashboard to gather & display suite execution data
- Setup **Cisco ACI** testbeds and maintain them for to perform feature specific regression testing concurrently

**Software Engineering Intern, Allegro Organizational Solutions Inc., Charlotte, NC**

May 2018 – May 2019

- Revamped the existing enterprise management software by redesigning UI/UX using **VanillaJS, HTML5 & CSS3**
- Integrated **AWS Simple Notification Services** using **AWS PHP SDK** to enable text message notifications for users
- Migrated static UI to CSS Grid layout to make the application modular & consistent across device browsers
- Developed auto-responder tool for reduction in processing time to email query data by **more than 60%**
- Proactively identified & fixed **30%** bugs to enhance the quality of web application & provide smooth user experience

**Software Engineer, Accenture Solutions Pvt. Ltd., Pune, India**

June 2015 – July 2017

- Improved processing time of Big Data files by **40%** with distributed computing on **AWS** using **Apache Spark UDF's**
- Developed UI with **Spring MVC** to monitor real time status of client-assets on front end using **HTML, CSS & JS**
- Built a Java utility with **Spring Boot** to process **JSON** data from **OSI PI** server & ingest in **SQL** tables
- Secured the web application against **cross-site scripting (XSS)** attacks using **OWASP ESAPI**
- Utilized **Junit** to increase code coverage by more than **80%** to ensure defect free & high-quality deliverables
- Following **Agile** approach, collaborated with geographically dispersed team in daily Scrum meetings, sprint planning, etc.

## EDUCATION:

**Master of Science in Computer Science**

Aug 2017 – Dec 2018

University of North Carolina at Charlotte, Charlotte, NC

**Bachelor of Engineering in Computer Engineering**

Aug 2011 – May 2015

University of Pune, Maharashtra, India

## PROJECTS:

**INTER-RATER RELIABILITY STATISTICS ANALYZER | R, R-Shiny**

Jan 2018 – May 2018

- Webapp with **R-Shiny** to calculate interrater reliability statistics: **Krippendorff's Alpha & Cohen's Kappa**
- Entire application based in just 2 files: **UI.R** for front-end & **Server.R** for server logic, both written in **R language**
- Project is hosted on **ShinyApps** server at: <https://siddhant10.shinyapps.io/myShinyApp/s>

**DEVNAGARI CHARACTER CLASSIFIER | Python, CNN/DNN, TensorFlow, Google OCR, Jupyter**

Jan 2018 – May 2018

- Integrated **ML** classifiers with **Neural Networks** in **Python** to classify **handwritten Devanagari** characters
- TensorFlow, Convolution & Deep Neural Networks** used to extract character features from grayscale images
- Classify **60,000** images in **36**-character groups by pattern matching using **Random Forest, MLP & KNN** classifiers

**AMAZON FINE FOOD REVIEWS CLASSIFIER | Python, Spark, ML**

Aug 2018 – Dec 2018

- Performed multi-class classification of food reviews using different ML algorithms with **Apache Spark** in **Python**
- Parallelized training of ML model for classification & incorporated NLP tasks: stemming, lemmatization for preprocessing
- Predicted the rating of reviews from the test data set & evaluate model performances using correct predictions accuracy

**UNIVERSITY EVENTS MANAGER | Java, Bootstrap 4, MySQL, HTML, CSS, JS, MySQL, Tomcat**

Aug 2017 – Dec 2017

- Web application to host & manage the upcoming events conducted in & around the University campus
- Backend business logic written in **Java** following **Spring MVC, Jersey** frameworks & **MySQL Server** for data storage
- Developed UI in **Bootstrap 4** allowing students to view, register for future events & provide feedback for past events