

# SOURABH SHETTY

## SOFTWARE DEVELOPER

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## EDUCATION

### Virginia Tech

Master of Science in Computer Science

Graduate Teaching Assistantship, Research Assistantship

Expected May 2019

### University of Pune

Bachelor of Engineering in Computer Engineering

May 2015

## EMPLOYMENT

### MicroStrategy

Software Engineer Intern

Tysons Corner

May 2018 – August 2018

- Added natural language generation as a new visualization plugin as part of the new Narratives team.
- Enhanced the functionality of the plugin using **JavaScript** and the Narrative Science **REST API**.
- Increased effective speed by **400%** by identifying bottlenecks and redundant function calls, and correcting them at their root.

### ContentSphere

Senior Software Developer I

Pune

February 2016 – July 2017

- Built a media server using **Python** and **Django** that interfaced with swiftclient, FFmpeg, Ghostscript, and ImageMagick, and could receive and save multiple formats of media (images, videos, and documents) and convert them to browser-renderable formats.
- Created front-end modules using **JavaScript** and **ReactJS** using the **Flux** architecture for business logic, and **HTML and CSS (SCSS)** for UI.
- Set up an event-based email notification system in **Java** within the **Spring** framework.
- Developed a POC using **TensorFlow** to automatically classify and tag images uploaded to the media server.
- Set up Linux servers to support required software, extended open source libraries to fit project requirements, and helped train new recruits.

### Virginia Tech

Graduate Teaching Assistant

Blacksburg

November 2017 – May 2018

- TA for the junior-level full stack web development course "Introduction to GUI Programming and Graphics" taught by Prof. Kurt Luther in the Department of Computer Science, where students had to work with wireframes, **HTML**, **CSS**, **JavaScript**, **PHP**, and **Amazon Web Services**.
- RA for the Pamplin College of Business which involved finding and scraping data from the SEC website using **Python**.

## TECHNICAL SKILLS

Comfortable with: **Python**, **Java**, **JavaScript**, **C**, **Android**, **HTML**, **CSS**, **ReactJS**, **SASS**, **JQuery**, **SQL**, **Git**, **Linux**

Some familiarity with: **C++**, **PHP**, **C#**, **Unity**, **Processing**, **D3**, **Scala**, **Racket**, **Ruby**

## PROJECTS (More information and projects on LinkedIn, GitHub, and my website)

### Argus

An **Android** application written in **Java** for remotely monitoring and securing a desktop. Includes the ability to remotely lock or shutdown a computer, restrict USB access, get screenshots of what the potential perpetrator is doing on the system, and taking a picture of the perpetrator using the system's webcam.

### 16 Squares of Blacksburg

An **augmented reality** application built on **Unity** using the **Vuforia** SDK and written in **C#**, visualizing the history of the city of Blacksburg and incorporating a variety of interaction techniques.

### Panacea

An **Eclipse** plugin written in **Java** that automatically detects insecure code and security-related bugs in a project and suggests fixes for them.

### Locus for Instagram / Mapster

An **Android & web application** to find Instagram pictures posted near your current location or anywhere in the world by clicking on a map. Technologies used: **Java**, the **Android SDK**, its **location APIs**, the **Instagram REST API**, **HTML**, **CSS (with Bootstrap)**, **JavaScript (with JQuery)**, **PHP** and **SQL**.

### OEM Info Editor

A portable tool built using **C#** in **Visual Studio** to allow users to add and/or edit fields in the Windows System properties view.

### Other Projects and Scripts

- **Python** scripts: to parse game save files for Crusader Kings 2, to scrape university results, and to upload gif images to gfyca in bulk
- Coursework related projects in various languages for MOOCs taken on Coursera, edX and Udacity.

## ACHIEVEMENTS AND HACKATHONS

### Winner (First Place)

Coding competitions conducted by AIT, Druva, DYPSOE, and Wegilant.

### Finalist

IIT Bombay TechFest, SEED IT Idol Pune

### Hackathons

VTHacks, Hack the North, BuildToLearn