

# Sasank Daggubati

705 7th st Bowling Green Ohio  
419.378.9017  
sasankdaggubati@gmail.com

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**LinkedIn:**

[linkedin.com/in/sasankdaggubati93/](https://www.linkedin.com/in/sasankdaggubati93/)

**GitHub:**

[github.com/Sasankdaggubati93](https://github.com/Sasankdaggubati93)

**Profile:**

[angel.co/sasank-daggubati-1](https://angel.co/sasank-daggubati-1)

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## >LANGUAGES AND TECHNOLOGIES

- **Proficient:** Java, JavaScript, VBScript, AngularJS, SQL, PostgreSQL, Git, HTML5, CSS3
  - **Exposure:** Python, jQuery, Node.js, Express, Spring, Oracle 11g, Docker, HP UFT 12, HP ALM
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## >PROFESSIONAL EXPERIENCE

### Senecio Software Inc | Software Engineer, Intern | Bowling Green, OHIO

Oct 2017 - May 2018

- Reviewed and modified legacy code of **Java** app, migrating from Java 6 to Java 9, resolved ~10 errors.
- Designed and developed database to save user data from remote server using **PostgreSQL** to display user details and perform actions like delete or add phone number, change email address.
- Created hash table for user data lookup using **JavaScript** and **jQuery**, reducing time complexity to O(1).

### Bowling Green State University | Research Assistant | Bowling Green, OHIO

Jan 2017 - May 2017

- Automated process of downloading apks for static analysis using Argus-SAF from remote server using **Python** and shell scripting, downloaded 2TB of APKs from remote server.
- Compared various static analysis tools with Argus-SAF for research purpose, which proved that Argus-SAF is 22-25% more efficient in finding data leaks.
- Engineered 10 Android applications to analyse data and control flow using Argus-SAF using **Java**, **MySQL** and android studio, finding more than 20 data leaks.

### Tech Mahindra Ltd | Software Engineer | Hyderabad, INDIA

Sep 2014 - Jun 2016

- Automated process of testing of mobile device system of swisscom application by writing reusable test scripts using VBScript, HP UFT and ALM, saving company more than 40 work hours per week.
  - Rewrote test scripts to dynamically capture objects during test script execution using regular expressions using VBScript, HP UFT and ALM, saving more than 150 work hours for every test cycle.
  - Created function libraries for better reusability of code, reducing redundancy in code by 43%.
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## >EDUCATION

### Masters in Computer Science, Bowling Green State University, Bowling Green, Ohio, GPA: 3.55/4.0

August 2018

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## >PROJECT WORK

### Impact of initial probe distribution on CFO | Software Engineer | [goo.gl/3xHVyC](https://goo.gl/3xHVyC)

Jan 2018 - July 2018

*Central Force Optimization (CFO), a metaheuristic algorithm based on gravitational kinematics. The goal of the project is to prove that initial probe distribution has no impact on CFO algorithm.*

- Wrote functions to print initial and final positions of 120 probes and compare with best probe position using **C++** and **Docker** to analyse impact of initial probe distribution on CFO over 10 dimensions of search space.
- Created functions in C++ to bring back errant probes which are out of bounds of the search space, improving run time of algorithm by 40%.

### Student Registration App | Software Engineer

March 2017

*An Android mobile application for logging prospective student details like name, phone number into college database.*

- Engineered client server validation for admins to log onto application using **Java** and **MySQL**, providing access to application through devices with Android 4.0 and above.
  - Created **MySQL** database to save student details, capable of storing data of ~15,000 students in university.
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## >LEADERSHIP + AWARDS

### Scholarship for Academic Excellence, BGSU

Jan 2017

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## >HOBBIES + INTERESTS

**Photography**, 2nd Place at UNMAAD'12, IIM Bangalore.