



SOFTWARE ENGINEERING

CSC 4350 Spring 2018

Group Name: Renegon Bits

Jason Herrera, Brian Cabigon, Braxton McLean, Chris Scott, Nishant Sinha

Project Description

Our group has decided to create a community-oriented Animal Record System. This software will require developers to work on a back end and front end. The front-end developers will have to design and implement a clean and efficient user interface while the back-end developers will have to build databases to support multiple users and the animal data that will be provided. The goal is to allow community members to input data on stray animals seen and keep that information on a database so that if that animal is seen again, it can be easily identified and returned to its owner. In addition, it will allow recognized organizations, such as animal shelters, to input data on their animals and allow them to advertise animals in their shelters for a higher chance of adoption.

Renegon Bits

Group Member	Role(s)
Jason Herrera	Group Coordinator, User Interface, Front-end Development
Brian Cabigon	Back-end Development, Database
Braxton McLean	Back-end Development, Testing
Nishant Sinha	Front-end Development, Testing
Chris Scott	Design, User Interface, Front-end Development

Jason Herrera

CELL (404)416-0733 | E-MAIL JasonRHerrera53@gmail.com | GITHUB JasonHerrera

EDUCATION

B.S. IN COMPUTER SCIENCE | 2016 – PRESENT | GEORGIA STATE UNIVERSITY

- Concentration: Databases & Knowledge-Based Systems
- Anticipated Graduation: 2020
- Honors College
- Current GPA: 4.09

EXPERIENCE

TECH COMMITTEE | PANTHERHACKERS | FALL 2017 - PRESENT

- Work on time-sensitive projects from clients such as web software using JavaScript

UNDERGRADUATE RESEARCH | GEORGIA STATE UNIVERSITY | SPRING 2018

- Researching audio signal identification using a convolutional recurrent neural network, and melody-line tracking.

LEADERSHIP

AMERICAN CANCER SOCIETY - RELAY FOR LIFE | SPRING 2016

- Department Head of Band in Relay for Life's Prism Concert. Managed the participants of the concert and worked on scheduling for each member.

ACHIEVEMENTS

PRESIDENT'S LIST | GEORGIA STATE UNIVERSITY

- Fall 2016, Spring 2017, Fall 2017

PATRICK S. GILMORE BAND AWARD

- For outstanding contributions to the band program.

LOUIS ARMSTRONG JAZZ AWARD

- In recognition of outstanding achievement by an instrumentalist in the field of Jazz, as demonstrated through superior musicianship, character, and individual creativity.

SKILLS

LANGUAGES

- English, Spanish

PROGRAMMING LANGUAGES

- **Proficient:** Java, C, Assembly, HTML5, CSS3, JavaScript,
- **Familiar:** C++, SQL, Python

OPERATING SYSTEMS

- Windows, MacOS, Unix, Linux

TECHNOLOGIES

- **Proficient:** GIMP 2, GitHub, Git
- **Familiar:** Node.js, MySQL, Angular.js

Brian Cabigon

CELL (678) 226-3905 • E-MAIL briancabigon@gmail.com • GITHUB [bcabio](#)

EXPERIENCE

Software Engineering Intern @ GE Digital

NEW ORLEANS, LOUISIANA – SUMMER 2017

- Developed project-critical web software using frameworks such as Angular.js and Java Spring
- Worked in an Agile environment to complete tasks and user stories by strict deadlines

University Assistant @ Georgia State University

ATLANTA, GEORGIA – SPRING 2017

- Assisted professors and graduate students in research related to wearable technologies and portable hardware
- Developed a wearable with built-in sensors designed to predict the severity of post-exercise muscle soreness
- Presented findings at the bi-annual Georgia State University Research Conference

LEADERSHIP

Chief Technical Officer @ PantherHackers

ATLANTA, GEORGIA – FALL 2017 - PRESENT

- Lead development and maintenance of PantherHackers open-source projects
- Maintained the organization's management tools including AWS, Heroku, Slack and Github

PROJECTS

PantherBot

2016 - PRESENT

- Developed a WebSocket Application designed to interact with users on Slack using Slack's Real-Time Messaging and Web APIs
- Developed logic behind several of the interactive scripts and message posting using Python

AWARDS

- Best IoT Hack @ HackGSU Fall 2016
- Best Hack Overall @ UGAHacks 2016
- First Place @ GhostHack Atlanta CTF 2016

LANGUAGES

- Proficient in Python, Javascript, Java, HTML5, and CSS3
- Familiar with Ruby, C/C++, PHP, SQL, C#, MASM

TECHNOLOGIES

- Proficient in Angular 2, Angular.js, Node.js, Express, Git, Github, Flask, MongoDB, MySQL
- Familiar with Apache

EDUCATION

Bachelor of Science, Computer Science

Georgia State University, Atlanta, GA – 2020

GPA: 3.8/4

Braxton McLean

<https://github.com/braxton-mclean>

1000 Seminole Road,
La Grange, GA 30240
256-453-5291

Braxton.McLean5@gmail.com

EXPERIENCE

Georgia State University – AV Engineer

Atlanta, GA | Fall 2017 – Present

Increased code distribution efficiency to managed Crestron devices across entire network (+600 devices) by nearly 80% by developing automated distribution scripts with Python and Toolbox. Introduced version control and review process in the form of Git and Bitbucket.

Florida Atlantic University – Research Assistant

Boca Raton, FL | Summer 2017

Researched isogeny-based elliptic curve cryptography to increase the speed of key exchange by implementing a low-level, state controlled multiplier in VHDL for an FPGA. Minimized and compared cycles of Montgomery-based multipliers against other implementations.

Georgia State University – Research Assistant

Atlanta, GA | Spring 2017

Designed a health analysis apparatus with small-footprint technology implementations using primarily C and Python.

PROJECTS

PantherBot – <https://github.com/PantherHackers/PantherBot>

Developed a WebSocket application designed to interact with Slack users using Slack's Real-Time Messaging API using Python and the SlackClient module, as well as interactive scripts for services like Reddit.

NoTypePass – <https://bitbucket.org/braxton-mclean/notypepass>

Developed a password manager application using keyboard analytics research and machine learning. Designed data creation parameters and filtering system into useable data for a machine learning algorithm in Python. Users can train the application to identify their typing, and authenticate themselves with the application.

LEADERSHIP

PantherHackers – Chief Executive Officer

Atlanta, GA | Fall 2016 - Present

Create and maintain relationships for the student organization through outlook programs, projects, and weekly meetings. Plan and manage with school hosted programs semester events and communications, such as PantherLeap, Global Game Jam, PantherHacks, etc.

PantherHackers – Game Development | Interest Group Leader

Atlanta, GA | Fall 2016 - Present

Led an interest group centered around game development practices, hands-on experience, and software engineering standards using Unreal Engine, Unity, Maya, and Git.

EDUCATION

Georgia State University

Expected Graduation: 2020

Current GPA: 3.94

Relevant Coursework:

- Data Structures
- Computer Org. (x86 ASM)
- System-Level Prog. (C)

TECHNICAL SKILLS

Languages:

- Python
- C/C++
- ASM (x86, Z80, Intel 8080)
- VHDL
- SIMPL
- C#
- Java
- BASH

Technologies:

- Git
- Gradle
- Crestron Suite

AWARDS

Best Privacy Hack

HackGSU, Fall 2016

Awarded to the team with the best software privacy implementation.

Awarded to: NoTypePass

Best Newbie/Freshman Hack

HackGSU, Fall 2016

Awarded to the team of all freshman with the best submitted application. Awarded to:

NoTypePass

1st Place – CTF Challenge

GhostHacks, Fall 2016

Participated and won GE Digital's Atlanta GhostRed CTF Security Challenge at GhostHacks.

Honorable Mention -

HackGT, Fall 2017

Awarded to the team with the second best medical hack.

Awarded to: Ball'r

Nishant Sinha

(770) 309-7613 | nishnha@gmail.com

EXPERIENCE

The Home Depot – OrangeWorks *Software Engineer Intern*

Atlanta, GA
01/2018 – current

Developed and tested potential, high-tech consumer products. Worked in teams to create, support, and deploy production applications.

Georgia State University – Department of Computer Science *Undergraduate Teaching Assistant*

Atlanta, GA
01/2018 – current

Graded assignments, quizzes, and exams for the Introduction to Programming II course. Held tutoring hours for freshman to junior computer science courses.

GE Power *iOS Developer Intern*

Atlanta, GA
08/2017 – 11/2017

Developed internal GE iOS applications. Used XCode 8.3 and worked in a scrum team to add features to a currently existing app and start development on a new app.

GE Digital *Software Engineer Intern*

New Orleans, LA
06/2017 – 08//2017

Developed GE industry software with senior and junior developers with Angular 2 following Scrum methodologies. Wrote the standard end-to-end testing framework for GE Digital in Selenium and Protractor.

Georgia State University – Department of Computer Science *Undergraduate Researcher*

Atlanta, GA
2016 - 2017

Modeled bicyclists' turning behavior with machine learning and developed an Android application to automatically signal when turning is detected. Researched under Dr. Ashwin Ashok at Georgia State University and awarded second place at GSURC.

EDUCATION

Georgia State University [Honors College] Bachelor of Science in Computer Science // GPA 3.92

Atlanta, GA
2016-2019

AWARDS

Presidential Scholarship *Georgia State University*

Atlanta, GA
2016-2020

A four-year scholarship awarded to the 10 students of the incoming class for consistent superior academic achievement, commitment to service, and inspiring personal qualities.

Panthers in the Valley *J. Mack Robinson College of Business, Georgia State University*

Atlanta, GA
Fall 2017

Robinson College's signature program in Silicon Valley. The program includes meetings with early stage start-ups, venture capitalists and technology stalwarts.

LANGUAGES & PROFICIENCIES

English, Hindi, Latin
Computer programming, Linux, MacOS, Windows
Public speaking, project management

Chris Scott

christopherscott9456@gmail.com | 706-601-8463 | 800 W Marietta St NW, Atlanta, GA 30318

www.linkedin.com/in/christopherscott9456

OBJECTIVE

EDUCATION

Georgia State University – GPA: 3.75

Bachelor of Science, Computer Science

January 2015 - Ongoing

COURSEWORK

- Programming Languages (Java, C++)
- Data Structures
- Computer Organization & Programming (Assembly)
- System-Level Programming (C, UNIX)
- Theoretical Foundations of CS (Discrete Mathematics)
- Calculus I & II
- Physics I & II
- Computer Architecture
- Web Programming (CSS, HTML, PHP, Javascript)
- Design and Analysis of Algorithms
- Programming Language Concepts

AWARDS

President's List – Spring 2016

Awarded by Georgia State University for a semester GPA of at least 4.00

Dean's List - Fall 2016

Awarded by Georgia State University for a semester GPA of at least 3.50

Dean's List - Summer 2017

Awarded by Georgia State University for a semester GPA of at least 4.00

Dean's List - Spring 2017

Awarded by Georgia State University for a semester GPA of at least 3.50

Chris Scott

SKILLS

Programming Languages:	Java, C, C++, Python, HTML, CSS
Operating Systems:	Windows 7/8/10, Linux, UNIX
Office Software:	MS Word, MS Excel, MS PowerPoint, MS Outlook
Image Editing Software:	GIMP 2, Inkscape

EXPERIENCE

Technical Support - Goforth & Williamson Inc.	<i>August 2012 – June 2017</i>
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- Received incoming packages and set up outgoing shipments via various shipping agencies.
- Creation, editing, and management of forms using Microsoft Excel, Microsoft Word, PDFs, etc.
- IT support – Resolving any hardware or software-related issues.
- Installation of various software.
- Writing guides and/or teaching skills to use various software.

Teaching Assistant - Georgia State University	<i>August 2017 – Ongoing</i>
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- Tutoring for CSC 1301 (Java I)
- Grading homeworks, labs, quizzes, and exams for CSC 1301 (Java I)

PantherHackers Club Events Committee - Georgia State University	<i>May 2016 – Ongoing</i>
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- Helping organize PantherHackers club events.
- Volunteering to participate in events.
- Allocating resources to host events (setting up time, designating location, purchasing food, working with marketing, etc.)