



Alan Gan

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Education

GPA: 3.82/4.00

University of Illinois at Urbana-Champaign, B.S., Computer Science

Expected May 2019

Professional Experience

STUDENT ASSOCIATE, SRI INTERNATIONAL, PRINCETON, NEW JERSEY

MAY - AUGUST 2017

- Designed and implemented an application-level driver for a sensor suite aimed at real-time presentation attack detection within biometric authentication systems.
- Developed a flexible library for a multi-sensor system with a focus on inversion of control and automatable capture sequences.
- Created a scriptable GUI with Python, Tkinter and OpenCV that helps guide a test subject through data collection procedures with plain and computer vision-aided visual cues.

STUDENT ASSOCIATE, SRI INTERNATIONAL, PRINCETON, NEW JERSEY

JUNE - AUGUST 2016

- Developed a data collection app using interprocess communication and interfaced with drivers to collect sensor data from Android devices, ISKN Slate, and a smartwatch.
- Created a GUI program with C++ and Qt to visualize and manipulate data collected from biosensors.
- Worked in a team to conduct research into the efficacy of various supervised and unsupervised training models and neural networks in recognizing handwriting and gestures from smartwatch data.

INTERN, CUNY REAP PROGRAM, NEW YORK

JUNE - AUGUST 2013

- Collaborated with college transfer students to analyze the ARDrone SDK, programming a drone to respond to custom iPhone commands using Objective C.

Personal Projects

- Created a Chord-based distributed in-memory key-value store with replica-backed fault tolerance.
- Working on project for collecting words and terms from Wikipedia to build a syntax graph.
- Building a recipe sharing website on top of AngularJS, Flask and MySQL.

Coursework

Systems Programming
Data Structures
Distributed Systems

Numerical Methods
Algorithms and Models of Computation
Artificial Intelligence

Awards and Honors

- Dean's List 2015-present
- SRI National Merit Award Scholarship 2015-2017

Skills

- Proficient in Java, C, C++, Qt, Rust, Python, Go, Javascript, CSS, and HTML.
- Experience with OSX, Linux, Windows, Docker, Tkinter, AngularJS and Flask.

Extracurricular Leadership

RECRUITMENT CHAIR, ZETA PSI FRATERNITY

SEPTEMBER 2016 - MAY 2017

- Planned and organized recruitment events for over 50 students with a budget of \$1,000 over a 5-week span.
- Increased organization membership by 39% over two semesters.

Fluent: English, Mandarin. **Working proficiency:** German. **Elementary:** Turkish, Arabic