

Genji Noguchi

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EDUCATION

University of California at Berkeley, *Class of 2019*

Berkeley, CA

Major: Electrical Engineering and Computer Science; Overall GPA: 3.51

Stuyvesant High School, *Class of 2015*

Manhattan, NY

RELEVANT COURSES

CS 188 *Intro to Artificial Intelligence*

CS 70 *Discrete Mathematics and Probability Theory*

CS 170 *Efficient Algorithms and Intractable Problems*

EE 16A&B *Designing Information Devices and Systems I & II*

CS 61C *Great Ideas in Computer Architecture*

Software Development (HS) *Python, JS, Web frameworks*

CS 61B *Data Structures and Advanced Programming*

Graphics (HS) *Graphics with C++ and GNU Bison/Flex.*

SKILLS

Programming Languages: Python, Java, C, C++, Scheme, SQL, JS, HTML/CSS, Android, Octave

Web Technologies: MarionetteJS/Backbone, EmberJS, AngularJS, Python Flask, NodeJS

Programs: ViM, IntelliJ, Android Studio, Arduino, Adobe Illustrator, Adobe Photoshop, Adobe Lightroom, Microsoft Office Suite

WORK EXPERIENCE

Software Engineering Intern

San Francisco, CA

Shaper Tools, Inc.

Jun '16 – Aug '16

- Restructured parts of the codebase to adapt the Robotics Operating System (ROS) framework, written in C++.
- Added the ability to dynamically alter cutting paths, improving cutting experience.

Tutor/Reader

Berkeley, CA

CS 61A Staff Team

Aug '16 –

- Taught small weekly hour-long discussion sections to help reinforce course material (Python, Scheme, SQL.)
- Helped grade midterm questions as well as project code composition.

Electrical Engineering Intern

Brooklyn, NY

ARISE, NYU Polytechnic Institute

Jul '13 – Aug '13

- Mentored by Prof. Vikram Kapila and graduate student Jared Frank to build and program robotic arm using Arduino.
- Wrote "Hyperaccuracy: An Implementation with PID Loops on a Robotic Arm"

PROJECTS

Personal Projects

- **Circle:** An Android application that reminds you to keep in touch with old friends. Add your friends on Circle, and the app will automatically compare your calendar data with your friends', and suggest meetup times.
- **AFAR:** Web software to crowdsource medical emergency responses. Passerby who see an emergency can call 911 and notify all nearby CPR certified volunteers with the push of a button. (github.com/AFARsystem)
- **Owl:** An Android app designed to automate the system of choosing a designated driver. The app uses location data as well as step data from the pedometer to automatically regulate a person's mental state. (github.com/orgs/owl-nyc/dashboard)

Class Projects

- **Text Editor Project:** Text editor written from scratch using JavaFX and KeyEvents. Features include word wrap, window resizing, moveable cursor, open/save, and scroll bar. (<http://datastructur.es/sp16/materials/proj/proj2/proj2.html>)
- **3D Graphics Engine with Interpreter,** engine written in C++, and interpreting language written with Bison and Flex. (github.com/genjinoguchi/graphics-final)
- **PPC:** A scripting language written using Bison and Flex, with a built-in REPL. (github.com/genjinoguchi/ppc)
- **Pool3D:** A full 3D billiards simulation in Java/Processing. (github.com/JulianKal/Per6-Noguchi-Kalogerakis-XPool)

ACTIVITIES, ORGANIZATIONS, & VOLUNTEER WORK

Android Developer

Berkeley, CA

Mobile Developers of Berkeley

Oct '15 – Jan '16

- Developed and published Circle, an Android application designed to help you keep in touch with friends in the real world.

Hackathon Hacker

Worldwide

HS Hackers, HH Hackers

Jan '14 –

- Competed at Cal Hacks '15, NY Battlehacks '15, PennApps '15, Hack the North '14, Boston BattleHacks '14, HackCooper, HackNYU, CodeDay NY, Breaking Barriers Hackathon

Project Team Leader

Manhattan, NY

Stuyvesant Science Olympiad, Technology Department

Oct '11 – Jun '15

- Coordination, research, scheduling, and building team projects

INTERESTS

Photography, guitar playing, singing, longboarding, weight lifting, orchestral music, jazz music, tennis, billiards