CAMERON KETCHAM

28 Scott Ave
Apt 111
Brooklyn, NY 11237

(408) 636 - 8111
cketcham@gmail.com

PROFILE

For as long as I can remember I have been a problem solver. I have always loved to find simple and elegant solutions to everyday problems. I've been exposed to computers, mathematics, and logic my entire life. I've tinkered at many different levels of technology, soldering electronic parts, programming in assembly, and programming at higher levels. And more than just a great programmer, I consider myself extremely good at framing problems and developing minimalist efficient solutions.

EXPERIENCE

LEAD ANDROID DEVELOPER, CORNELL NYC TECH; NEW YORK, NY — JANUARY 2013 - CURRENT

Developed open source library for sending data from sensors of the phone to ohmage. Created the My Comparisons visualization which uses open mHealth apis to visualize data for patients with diabetes. Created Trialist mobile application for N-of-1 patient studies.

LEAD ANDROID DEVELOPER, CENS AT UCLA; LOS ANGELES, CA — AUGUST 2011 - JANUARY 2013

Redesigned the Android client for the open source Ohmage project. This platform is used in pilot health studies (www.andwellness.org) and will be used as a pedagogical tool in LAUSD schools for learning data representation, collection and analysis (www.mobilizingcs.org)

LEAD ANDROID DEVELOPER, KULLECT INC. SAN FRANCISCO, CA — APRIL 2010 - AUGUST 2011

Worked on the Android application for Kullect Inc., a crowd sourced data collection application. Built the complete Android client which could communicate extensively with the server, capture different media types, and use many of the different features of the Android platform.

LAB ASSISTANT, CENS AT UCLA; LOS ANGELES, CA — JUNE 2009 - JUNE 2010

Helped work on on Android and web applications related to participatory sensing research projects including WhatsNoisy, WhatsInvasive, and Project Budburst.

RESEARCH MENTOR, CENS HIGH SCHOOL SUMMER RESEARCH PROGRAM;
LOS ANGELES, CA — JUNE 2009 - AUGUST 2009

One of the most rewarding experiences I've had was being the mentor to the CENS High School Summer Research Program. My role was to develop and implement a program where we would teach high school students with varying backgrounds about programming and statistics. I feel like I was really able to connect with the students in a way that allowed them to learn in an interesting and fun way.

INTERN, FAQQLY.COM; FREMONT, CA — JUNE 2006 - SEPTEMBER 2006

Developed a social networking site built with Ruby on Rails called faqqly.com

INTERN, PLATFORM SOLUTIONS INC; SUNNYVALE, CA — JUNE 2004 - OCTOBER 2005

Interned at PSI where I learned a lot about businesses and the computer industry. I helped out wherever I was needed. I believe it was here where I learned the most about how to effectively solve problems; especially ones I knew very little about.

EDUCATION

University of California Los Angeles — Computer Science B.S., 2010

RESEARCH PROJECTS

MOBILE PHONE ACTIVITY PROFILER ; CENS AT UCLA — SEPTEMBER 2008 - JUNE 2009

For one year while working on my undergraduate degree in Computer Science. I worked on a research project with Deborah Estrin as my mentor. I developed an application for the Nokia n95 which would intelligently track the user with the GPS and accelerometer while at the same time recording short 5 to 10 second long snippets of audio. I then wrote a script that would then analyze the data gathered by the phone to associate the recordings with certain events. During playback I would choose a few audio samples from each event to play back. This turned out to be good enough to determine what the user was actually doing at the time. I wrote a paper analyzing effective methods of profiling the GPS and accelerometer data to split the audio into logical events.

SKILLS

I have over 6 years of experience developing various web applications and 5 years of experience programming applications for Android phones including communication with a server, mobile social networking, and media collection and playback. I am highly experienced using Java, Ruby, Ruby on Rails, Python, C, C++, SQL, PHP, HTML, and JavaScript, and I have used many other languages including ML, Lisp, Perl, Sed, AppleScript, and bash shell scripting.

AWARDS

I received the Eagle Scout award in 2005

REFERRALS

References on Request