Parth Pendurkar

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PROFILE

I am an energetic high schooler interested in computer science and software development, seeking to expand my reach into the software industry. Already having stepped foot into the realm of iOS development, I have discovered a particular affinity for the creation of useful, innovative software. I enjoy facing real world problems head on and apply my skill set toward finding efficient solutions.

EXPERIENCE

Founder, Kidz Kode — 2014-Present

Kidz Kode (kidzkode.org) is a free program tailored toward teaching the basic fundamentals of programming in order to instill long-lasting, beneficial values of computer science in young kids across the bay area. The program is dedicated to promoting enthusiasm for coding and encouraging kids to pursue tougher computer science courses and careers later in their lives. Along with my two co-founders, I devised a system based on an individualized approach; the curriculum and relevant classwork is specifically tuned to allow our students to complete the program at their own pace. The three of us teach the classes, communicate with parents, and take care of logistics.

Software Development (Paid Intern), ON.Lab — June 2016-August 2016

ON.Lab is a Menlo Park based non-profit that is revolutionizing the software networking realm through their Open Networking Operating System (ONOS), which allows developers to create advanced, high-throughput applications on a stable, self-repairing architecture. During my time as an intern, I helped organize software tutorials and created a dependency scanner tool that maps out specific classes and gives the user a visual overview of the hierarchy and interfaces that are implemented (github.com/opennetworkinglab/cdvue).

Treasurer, Harker Programming Club — September 2014-Present

Harker Programming Club is a school based organization that hosts coding contests and organizes the Harker Programming Invitational every year. I have been a member of the club since 2014, working my way up to the treasurer position. As treasurer, I contact companies and professors to sponsor the invitational, plan resource collection, and allocate funds to purchase necessary materials. In 2015, I organized the Harker Programming Invitational, bringing sponsors such as MakeSchool and Pebble and professors from Carnegie Mellon University and UCSC, for example.

Commissioner, Los Gatos Youth Commission — August 2015-August 2016

The Los Gatos Youth Commission is an organization that focuses on issues important to teens in the community and serves to bridge the gap between adults and teens in and around Los Gatos. The commission tackles policy problems, helps direct town affairs, and implements ideas to make the town more youth friendly. As a commissioner, I meet at the town chambers on the second Tuesday of every month to talk about current issues and come up with potential solutions.

Exhibit Interpreter, Tech Museum of Innovation — September 2014-Present

The Tech Museum of Innovation is a museum located in San Jose dedicated to the dissemination of scientific and technological knowledge. As an exhibit interpreter, I am tasked every week with the job of inviting guests to exhibits, explaining relevant science and technology, ensuring guests' safety and comfort, and promoting an atmosphere of learning throughout the museum.

Teacher and Project Manager (Paid Intern), Coding4Youth — June 2015-July 2015
Coding4Youth (coding4youth.org) is a summer program for middle and high school students who aspire to learn programming. During my time as an intern, I taught a wide variety of students, tracked their individual progress, and coordinated class schedules and projects. As a project manager, I helped create a search engine (page ranking) workshop based on Python and improve existing projects based on MIT's Scratch.

Presentation Officer, Harker Science for Youth — September 2013-Present
Science for Youth is a volunteer organization based in the Bay Area and currently has 5 chapters in different high schools. The club holds free monthly presentations at local libraries on varying topics in science, such as Biology, Astronomy, and Physics. As a presentation officer, my objective is to create, improve, and coordinate presentations that focus on promoting scientific interest in the community.

Coach, American Youth Soccer Organization — November 2013-2015
The AYSO, an organization dedicated to the spread of recreational soccer, strives to help autistic children fulfill their dreams in a safe environment. Passionate about helping children in challenging circumstances, I assist in coaching soccer during the spring and fall seasons by setting up equipment, helping run warm-ups and drills, and participating in small scrimmages that boost the players' social confidence and love of the sport.

Member, French National Honor Society — September 2013-Present
The French National Honor society is a club in which French culture, language, and ideas are spread and appreciated by the community. Some projects taken on by the society include a cultural night, a student made magazine, and meetings consisting of French food, entertainment, and celebration. Having taken French since middle school, I enjoy participating in and being exposed to the intricate lifestyle behind the language.

PROJECTS

Meet Me - Hanging Out Made Easy — March 2016-Present
With a team of 5, I created Meet Me (formerly known as Centroid), an app that allows users to input multiple addresses at a time and receive meeting locations that are optimally distanced from each one. The app was built from the ground up utilizing a few API's (Yelp and Google Maps) and won 1st place at GunnHacks. I worked on the front-end, UX, design, as well as implementing Yelp API filtering. Meet Me is currently on the App Store.

Pocket Chef — January 2016-Present
Along with 2 other developers, I built Pocket Chef (formerly known as Reizoko), an app that allows users to take pictures of ingredients and receive an array of interesting recipes that they can make. The app was built from scratch utilizing 2 exceptional API's (Spoonacular and CloudSight) and won second place at Los Altos Hacks. I worked mainly on the front-end and implemented some back-end web scraping. Pocket Chef is almost ready to be released to the public.

Hire Me — June 2016
With 4 other developers, I created Hire Me, an app that allows users to find small jobs and tasks around them to make some quick money. The app, currently in an pre-alpha stage, was built using Swift and Parse and won the 2nd place Entrepreneurship prize at Base Hacks. I worked mostly on the front-end. The app is projected to be released in early 2017.

Senior Trip — May 2016-Present
Earlier this year, I was requested by the chair of the Harker math department to develop an app for the yearly senior trip. Over the course of two months, I crafted the Senior Trip app that outlines relevant information concerning the trip. I built the app from scratch utilizing a few iOS pods and

APIs to present the information in a concise manner. The fully functioning app will be available for use to Harker seniors on the upcoming 2017 trip.

Color IQ: Test Your Intelligence — July 2015-Present

Along with my co-creator, I made an iOS game called Color IQ that challenges players to react quickly to basic color changes. The game is based on the Stroop effect (https://en.wikipedia.org/wiki/Stroop_effect), an interesting theory based on the interaction between words and colors. The game was created using Xcode and Swift; all of the game's artwork was also personally crafted. The updated version of the game is currently on the App Store.

Near Sighted — September 2015-Present

With another developer, I made a simple iOS game called Near Sighted, an animated game where the player controls a character by swiping to evade ghosts and collect as many coins as possible. The game was created using Xcode and Swift; all of the game's artwork was also personally crafted. The newest version of the game is currently on the App Store.

Historical Precedents and Policy Analysis in the Development of Proposed Nuclear Mishap Response Plans — 2015

I worked on a team with several of my peers to compose a research essay directed toward the analysis of nuclear mishaps to raise awareness of the importance of nuclear nonproliferation. In the paper, the game theoretic aspects of nuclear warfare, the causes and consequences of previous mishaps, current and past data concerning nuclear proliferation, and more were commented on. The final paper was presented at the Critical Issues Forum (CIF) in Monterey in 2016.

Optimizing Existing Models of RNA Sequence Data Analysis: A Novel Infrastructure to Advance the Timeline of Current Methods — 2015

Over the course of three months, my partner and I worked with several UCSC professors to describe the efficiencies of a novel genetic sequencing pipeline. In our project, we analyzed separate parts of the RNA Sequencing pipeline and elaborated on their benefits; multiple software tools ranging from Docker, to RSEM (A quantification tool) were incorporated. The final paper was submitted to the Bioinformatics subsection of the Siemens Science Competition in 2015.

How the Ability of the Heterocephalus Glaber to Resist Cancer can be Applied Toward Medical Research Concerning Humans — 2014

My partner and I conducted research with genetic data of the Naked Mole Rat (Heterocephalus Glaber) to identify potential causes of its ability to completely resist cancer. Over the course of two months, I cross referenced gene sequences of specific parts of the Naked Mole Rat genome to their human genome counterparts and analyzed key similarities, differences, and mutations. The project was submitted to the Bioinformatics subsection of the Synopsis Science Fair in 2014.

AWARDS

GunnHacks 1st Place (Centroid/Meet Me)

Los Altos Hacks 2nd Place (Reizoko/Pocket Chef)

Base Hacks 2nd Place Entrepreneurship Prize (Hire Me)

President's Volunteer Service Award (Bronze)

BECON 2nd Place (Pocket Chef)

Love of Learning (The Harker School)

Leadership (The Harker School)

RELEVANT COURSEWORK

AP Computer Science A	Honors Data Structures	Honors Computer Architecture
Honors Multivariate Calculus	AP Calculus BC	AP Chemistry
AP Economics	iOS Swift Fundamentals	Web Design Fundamentals

SKILLS

Java Python Swift Objective-C Unix HTML CSS Javascript Photoshop

EDUCATION

The Harker School, San Jose, CA — Graduating 2017