



Terrence James Diaz

Software Engineer pursuing M.S. in Computer Science

I'm a recent graduate from Harvey Mudd College with a strong attraction towards UI, UX, and HCI. I'm particularly interested in how design interacts with the unique properties and ergonomics of technology. My research interests include software engineering, developer productivity, learning tools, and equitable/intelligent user interfaces. I love community engagement and social work, so I aim to uplift traditionally underprivileged and underrepresented groups through technology and design. Please visit my website to learn more about me.

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EDUCATION

B.S. Computer Science, Concentration in Asian-American Studies

Harvey Mudd College

08/2013 – 05/2017

Claremont, CA

Senior Capstone Clinic Project

- ▣ Dynamic Website Updating (Industry Sponsor: GoDaddy, Inc)

RESEARCH EXPERIENCE

MyCS: Middle-Years Computer Science

Harvey Mudd College | Advisor: Zachary Dodds

05/2015 – 09/2015

Claremont, CA

Tasks/Achievements

- ▣ Designed a CS curriculum in fundamentals such as algorithms and programs for elementary and middle school students
- ▣ Area: CS pedagogy and outreach; focused on Arduino curriculum and CS fundamentals
- ▣ Outreached and held workshops for various school teachers in Waimea, HI and Pomona, CA

PUBLICATIONS

Paper

MyCS at 5: Assessing a Middle-years CS Curriculum [↗](#)

Author(s)

B. Castro, T. Diaz, M. Gee, R. Justice, D. Kwan, P. Seshadri, Z. Dodds

March 2016

This paper shares the five-year development and deployment of MyCS, a CS curriculum for "middle-years students," roughly in US grades 4-10. By tracing MyCS's assessment and evolution, this work highlights how two districts used a middle-years CS foothold from which to establish deeper, district-wide changes in identity.

CONFERENCES AND PRESENTATIONS

Twitch Developer Day (10/2018) [↗](#)

Attendee

Connect.Tech Front-end Engineering Conference (10/2018) [↗](#)

Attendee

Special Interest Group for Computer Science Education (03/2016) [↗](#)

Speaker/Presenter

- ▣ Talk - MyCS at 5: Assessing a Middle-years CS Curriculum

Richard Tapia Celebration of Diversity in Computing (02/2015) [↗](#)

Attendee

HONORS AND AWARDS

Dean's List (05/2016 – 05/2017)

Harvey Mudd College

- ▣ Awarded to students who have obtained a grade point average of 3.0 or better.

Presidential Volunteer Service Award, Bronze (09/2016)

Corporation for National & Community Service

- ▣ The President's Volunteer Service Award recognizes United States citizens and lawfully admitted, permanent residents of the United States who have achieved the required number of hours of service over a 12-month time period or cumulative hours over the course of a lifetime. A Bronze award is 300+ service hours.

Distinguished Club Improvement, 2015-2016

Circle K International

- ▣ This award is presented to a Circle K club in California-Nevada-Hawaii that has demonstrated growth, development, and improvement from the previous year. It was awarded under my term as President for the Claremont Colleges Circle K Club.

Outstanding Computer Science Clinic Team (05/2017)

Harvey Mudd College

- ▣ Computer Science Clinic Team awards are given to individual team members, recognizing their outstanding performance on the team, recognizing their service to the team, the sponsor, and the entire CS Clinic Program.

Distinguished President, 2014-2015 and 2015-2016

Circle K International

- ▣ This award is presented to a Circle K Club President who demonstrates excellent achievement in his/her role. The award illustrates the Distinguished President's dedication, participation, and contribution to Circle K.

Member Recognition Program: Platinum, 2014-2017

Circle K International

- ▣ This award recognizes members who have shown dedication in the Circle K three tenets: service, leadership, and fellowship. A Platinum recipient has committed over 120+ service hours for the year amongst other requirements.

PROJECTS

Solstice (04/2019 – Present) [↗](#)

- ▣ I was the tech lead / advisor for this project. Solstice is a mobile app built in React Native for Circle K International, a non-profit.
- ▣ The app facilitates communicating information about various service events and leadership conferences so that users can have easy, offline access before and during these events.

Luxanna (09/2017 – Present) [↗](#)

- ▣ Luxanna, a personal project, is a simple bot that can respond to various commands in a Discord server pertaining to League of Legends info retrieved from the provided Riot API and other entertaining things.
- ▣ Built in NodeJS

Dynamic Website Updating (08/2016 – 05/2017) [↗](#)

- ▣ This project was an industry collaboration between Harvey Mudd College and GoDaddy to create a new feature for GoDaddy's website creation tool (GoCentral). It created a standalone component that may be integrated with GoDaddy's website creation tool in the future.
- ▣ The goal of this project was to create a new section for GoDaddy's website editing tool that would allow users to add scheduled announcements to their website. The project currently provides a proof-of-concept for how this would look in GoDaddy's website editor, though it has no website creating functionality as a standalone piece.
- ▣ Aspects I focused on: mockups, user interface design, user experience testing, and actual implementation/development
- ▣ Technologies included but not limited to: ReactJS, Node, npm, Webpack, MongoDB, Redux, Express

Envirostory (01/2016 – 05/2016)

- ▣ Envirostory is an app conceptualized in CS124 Interaction Design to raise environmental issues in Claremont, CA
- ▣ Mocked up, wireframed, and prototyped using tools such as InVision and myBalsamiq

Lucid Dream Diary (08/2015 – 12/2015) [↗](#)

- ▣ Lucid is a dream journal app created for CS121 Software Development that helps users combat nightmares. It offers several features that help provide insight into dreams and recurring nightmares, and it is organized in such a way as to help users analyze their dreams effectively.
- ▣ Created in Android Studio, focused more on implementation and design of UI.

SKILLS

Programming Languages

Python, C#, Java, C++, Javascript, Racket, Haskell

Web

HTML, CSS, Bootstrap, React, Node, MongoDB, Express

UI/UX

myBalsamiq, Invision, Sketch, User Experience Testing

Other

SQL, Git, NodeJS, Matlab, Prolog

Mobile App

Xamarin, React Native, iOS, Android, UWP

Adobe Creative Suite

Photoshop, Lightroom, Illustrator, InDesign, After Effects

Interpersonal Skills

Leadership, Public Speaking, Management, Customer Service, Event Planning

CERTIFICATIONS

Microsoft Certified Solutions Developer: App Builder (04/2019 – Present) [↗](#)

Requires passing three exams: Programming in C#, Developing Mobile Apps, ASP.NET MVC Web Apps

WORK EXPERIENCE

Software Engineer II

Laserfiche [↗](#)

12/2017 – Present

Long Beach, CA

Tasks

- Develop iOS, Android, and UWP mobile applications in C# using Xamarin, focusing on full-stack
- Lead UI-heavy feature development and technical debt / refactoring initiatives
- Give talks on technical work, act as team's scrum master, mentor jr. members, conduct interviews
- Led project to revamp app UI to conform to platform/industry standards, review team UX decisions
- Created three training modules to train new developers on UI development for our three mobile platforms

Creative Graphic Designer & Web Developer

The Hive Center for Creative Collaborativity [↗](#)

09/2016 – 05/2017

Claremont, CA

Tasks

- Facilitate design thinking workshops, outlets, and resources; inspired by Stanford's d. School
- Create publications, prints, logos, and other designs for outreach and advertisement
- Promote design/creativity institutions through various projects, such as motion graphics

Software Developer, GoDaddy Team

Harvey Mudd CS Clinic Program

08/2016 – 05/2017

Claremont, CA

Awarded Outstanding Computer Science Clinic Team 2017

Tasks

- Built a full-stack web application for GoDaddy, Inc's website building tool
- Engaged in all stages of software development cycle, from mockups to implementation to testing
- Prepared and presented talks to inform audiences about project status and challenges
- Drafted and wrote various technical reports to sponsor for updating and institutional documentation purposes

Tutor and Grader

Harvey Mudd College CS Department

09/2014 – 01/2017

Claremont, CA

Tasks

- Assist students in introductory computer science courses and grade projects
- Tutor kids K-12 with various math/science subjects

Sustainability Intern

Harvey Mudd College Facilities and Maintenance

05/2016 – 08/2016

Claremont, CA

Tasks

- Draft and write technical reports detailing energy usage of various school facilities
- Conduct research and analyze various solutions to sustainability problems in school

COMMUNITY SERVICE AND ENGAGEMENT

Technology Lead and Advisor - Technology Committee

Circle K International

04/2019 – Present

California, Nevada, Hawaii

Support Staff, Media and Technology

Lakas Filipinx Mentorship Program [↗](#)

08/2017 – Present

Southern California

Club Adviser - CSU Long Beach Circle K

Kiwanis International [↗](#)

01/2018 – Present

Long Beach, CA

District Member Recognition Committee Member

Circle K International [↗](#)

05/2016 – 05/2017

California, Nevada, Hawaii

President

Circle K International, Claremont Colleges [↗](#)

03/2014 – 04/2016

Claremont, CA

District Membership Development and Education Committee Member

Circle K International [↗](#)

05/2014 – 05/2015

California, Nevada, Hawaii