Why am I here?

Philip Johnson
Collaborative Software Development Laboratory
Information and Computer Sciences
University of Hawaii
Honolulu HI 96822

Should software engineering be an institutional priority at UH?

Where should the organization home for software engineering be at UH?

How should UH build its software engineering program?

A brief history of software engineering at UH

About me in a nutshell

Teaching

- Morea Framework
- TechFolios
- ICS 314: SE
- ICS-Portfolios
- Courses.ICS

Research

- RadGrad
- Open Power Quality

Teaching

Home | Morea Framework

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morea-framework.github.io

Morea Framework | Home | Quick Start | User Guide | Developer Guide | Gallery | News | Help

Find me on GitHub

Welcome to the Morea Framework

Easily generate educational websites organized by Modules, Outcomes, Readings, Experiences, and Assessments.

Make the pedagogy visible

Morea implements a simple pedagogical pattern: a course is a sequence of *modules*, each with one or more *learning outcomes*. Modules can combine one or more passive *readings* (providing background) with one or more active *experiences* (in-class work or homework). Finally, a module can contain one or more *assessments* to help students determine if they've achieved the learning outcomes.

Our experience shows that students and teachers both benefit by making this course design explicit. For example, Morea generates course websites that organize course content in multiple ways: by modules, outcomes, readings, experiences, and assessments. This makes it easier for teachers to design well structured courses, and easier for students to understand what they need to learn and how to learn it.

Improve development with Github

Content management systems like Wordpress make it easy to design the first version of a course website. But they do not make it easy to duplicate and revise a course website in future semesters, or copy and adapt material developed by others.

On the other hand, GitHub provides marvelous infrastructure for iterative enhancement and deployment of educational websites, including:

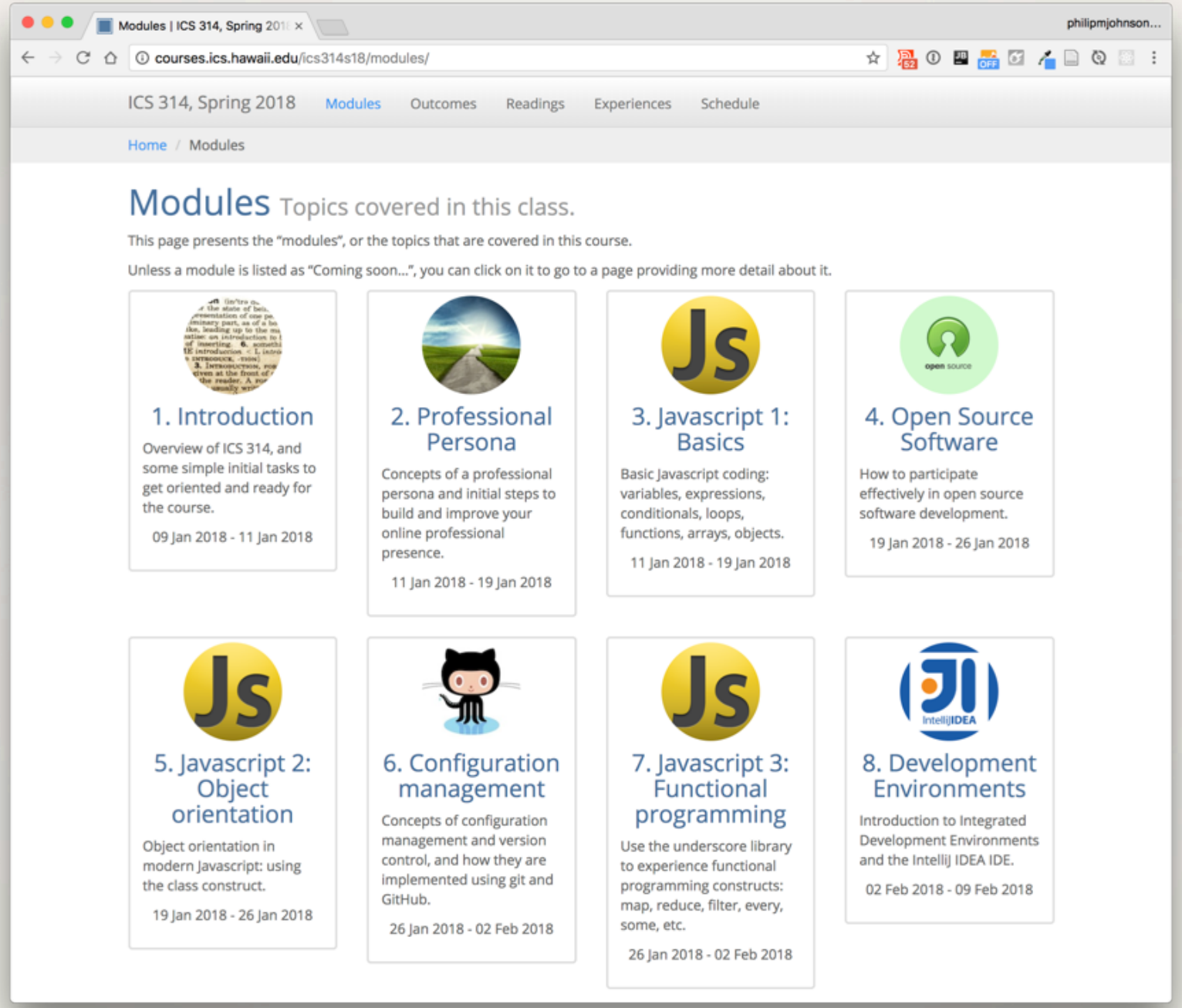
- Free storage of content.
- Free private repositories for educators.
- Free hosting of project websites.
- The ability to clone, branch, and fork repositories.

Morea uses Github to make it easier to create courses and improve them over time. Morea and Github help you collaborate with students and teachers to more easily create and improve educational content.

Focus on content, not styling

Nice websites involve lots of CSS and HTML, which is a pain to maintain manually. Jekyll is a "static site generator" that enables you to develop your course content in Markdown format without using HTML.

Morea leverages Jekyll to separate HTML/CSS presentation details from your course content. Morea builds modern, responsive websites using Twitter Bootstrap, so they display well on laptops, tables, and smart phones.


Modules | ICS 314, Spring 201
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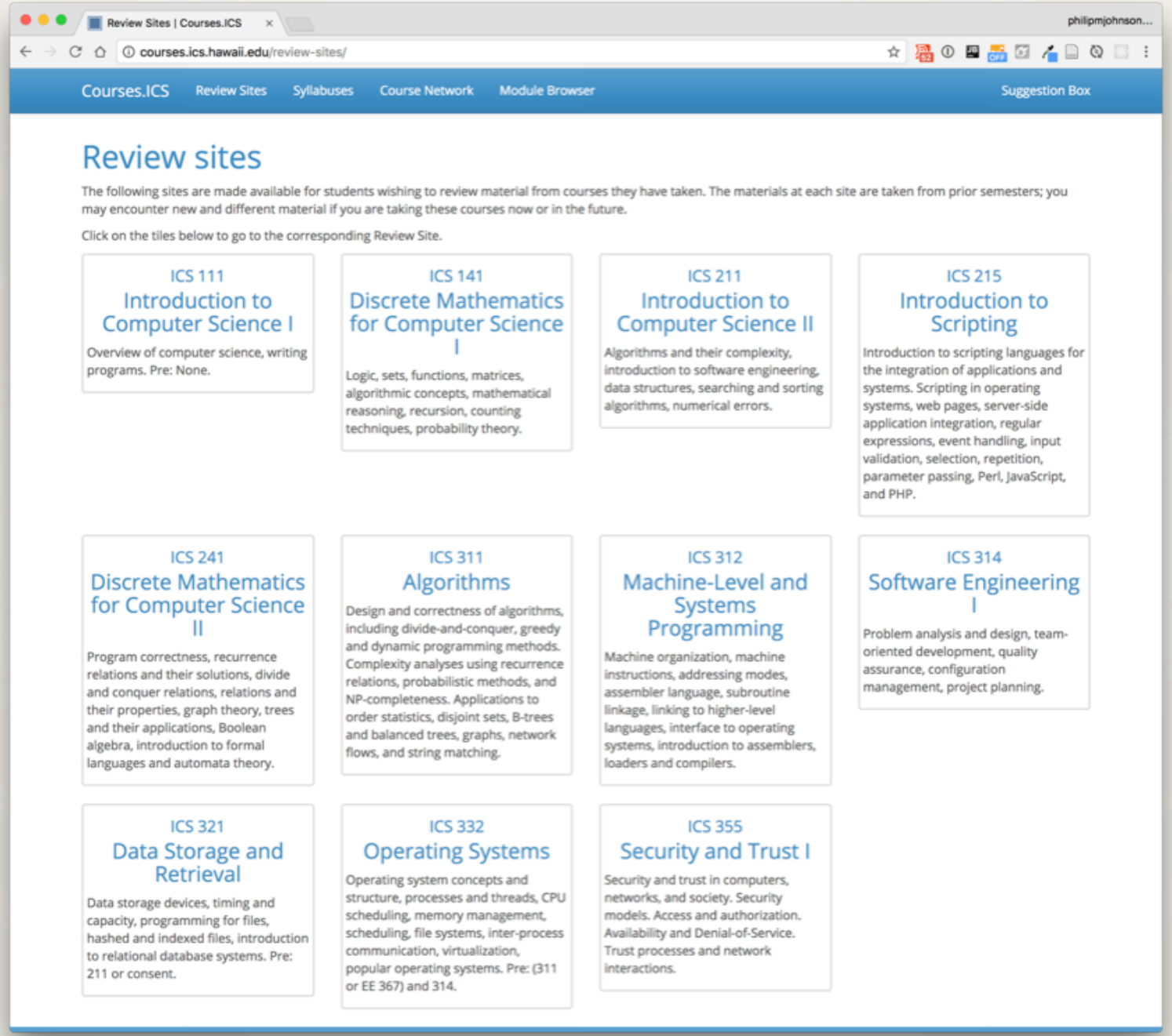
courses.ics.hawaii.edu/ics314s18/modules/
ICS 314, Spring 2018
Modules
Outcomes
Readings
Experiences
Schedule
Home / Modules
Modules Topics covered in this class.
This page presents the "modules", or the topics that are covered in this course.
Unless a module is listed as "Coming soon...", you can click on it to go to a page providing more detail about it.
1. Introduction
Overview of ICS 314, and some simple initial tasks to get oriented and ready for the course.
09 Jan 2018 - 11 Jan 2018
2. Professional Persona
Concepts of a professional persona and initial steps to build and improve your online professional presence.
11 Jan 2018 - 19 Jan 2018
3. Javascript 1: Basics
Basic Javascript coding: variables, expressions, conditionals, loops, functions, arrays, objects.
11 Jan 2018 - 19 Jan 2018
4. Open Source Software
How to participate effectively in open source software development.
19 Jan 2018 - 26 Jan 2018
5. Javascript 2: Object orientation
Object orientation in modern Javascript: using the class construct.
19 Jan 2018 - 26 Jan 2018
6. Configuration management
Concepts of configuration management and version control, and how they are implemented using git and GitHub.
26 Jan 2018 - 02 Feb 2018
7. Javascript 3: Functional programming
Use the underscore library to experience functional programming constructs: map, reduce, filter, every, some, etc.
26 Jan 2018 - 02 Feb 2018
8. Development Environments
Introduction to Integrated Development Environments and the Intellij IDEA IDE.
02 Feb 2018 - 09 Feb 2018


Review Sites | Courses.ICS
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courses.ics.hawaii.edu/review-sites/
Courses.ICS
Review Sites
Syllabuses
Course Network
Module Browser
Suggestion Box
Review sites
The following sites are made available for students wishing to review material from courses they have taken. The materials at each site are taken from prior semesters; you may encounter new and different material if you are taking these courses now or in the future.
Click on the tiles below to go to the corresponding Review Site.
ICS 111
Introduction to Computer Science I
Overview of computer science, writing programs. Pre: None.
ICS 141
Discrete Mathematics for Computer Science I
Logic, sets, functions, matrices, algorithmic concepts, mathematical reasoning, recursion, counting techniques, probability theory.
ICS 211
Introduction to Computer Science II
Algorithms and their complexity, introduction to software engineering, data structures, searching and sorting algorithms, numerical errors.
ICS 215
Introduction to Scripting
Introduction to scripting languages for the integration of applications and systems. Scripting in operating systems, web pages, server-side application integration, regular expressions, event handling, input validation, selection, repetition, parameter passing, Perl, JavaScript, and PHP.
ICS 241
Discrete Mathematics for Computer Science II
Program correctness, recurrence relations and their solutions, divide and conquer relations, relations and their properties, graph theory, trees and their applications, Boolean algebra, introduction to formal languages and automata theory.
ICS 311
Algorithms
Design and correctness of algorithms, including divide-and-conquer, greedy and dynamic programming methods. Complexity analyses using recurrence relations, probabilistic methods, and NP-completeness. Applications to order statistics, disjoint sets, B-trees and balanced trees, graphs, network flows, and string matching.
ICS 312
Machine-Level and Systems Programming
Machine organization, machine instructions, addressing modes, assembler language, subroutine linkage, linking to higher-level languages, interface to operating systems, introduction to assemblers, loaders and compilers.
ICS 314
Software Engineering I
Problem analysis and design, team-oriented development, quality assurance, configuration management, project planning.
ICS 321
Data Storage and Retrieval
Data storage devices, timing and capacity, programming for files, hashed and indexed files, introduction to relational database systems. Pre: 211 or consent.
ICS 332
Operating Systems
Operating system concepts and structure, processes and threads, CPU scheduling, memory management, scheduling, file systems, inter-process communication, virtualization, popular operating systems. Pre: (311 or EE 367) and 314.
ICS 355
Security and Trust I
Security and trust in computers, networks, and society. Security models. Access and authorization. Availability and Denial-of-Service. Trust processes and network interactions.

Growth of functions | Review

courses.ics.hawaii.edu/ReviewICS311/modules/growth/

Review ICS 311 | Prerequisites | Modules | Outcomes | Readings | Experiences | Suggestion Box

Review Sites / Home / Modules / Growth of functions

Module: Growth of functions

Asymptotic notations, omega, theta, recurrences, substitution, master method.

Prerequisite Modules

Algorithms

Algorithms, computational complexity, asymptotic notations, pseudocode, greedy algorithms, easy vs. hard problems.

ICS 141

Big-O Notation

Introduction to Big-O notation and code analysis.

ICS 211

Advanced counting techniques

Recurrence, generating functions, inclusion-exclusion principle, divide-and-conquer, application to algorithm design.

ICS 241

Learning Outcomes

Characterize algorithms with respect to asymptotic growth, including:

- Growth rates in terms of O, o, Ω, ω or Θ.

Readings

Asymptotic notations

Notations for this analysis

Screencast | Suthers | 12 min

Omega and Theta

The omega and theta notations

Screencast | Suthers | 17 min

little-o and omega

The little guys, properties, and use in equations

Screencast | Suthers | 16 min

Common Functions

Common functions and useful identities

Screencast | Suthers | 9 min

Home | TechFolios philipmjohnson...

techfolios.github.io

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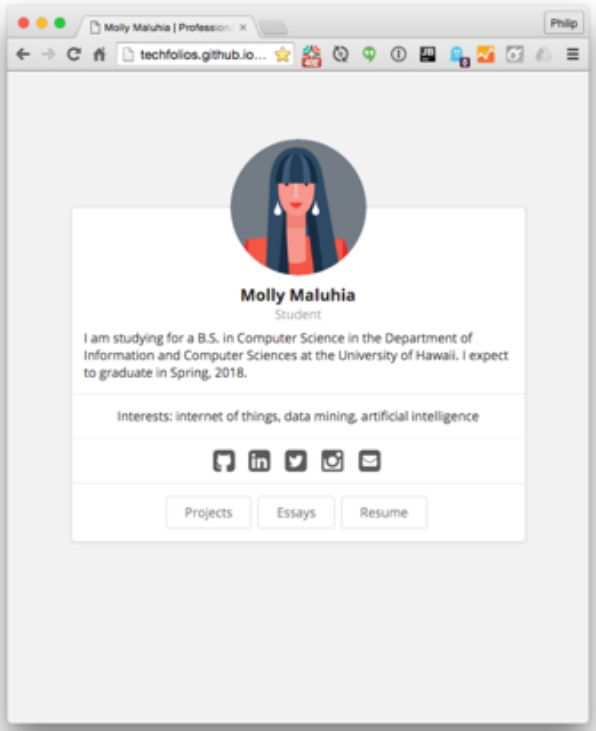
Welcome to Technical Portfolios (TechFolios)

Easily create technical portfolios using GitHub Pages, Jekyll, Semantic UI, and JSON Resume.



Create modern, responsive technical portfolio sites *fast!*

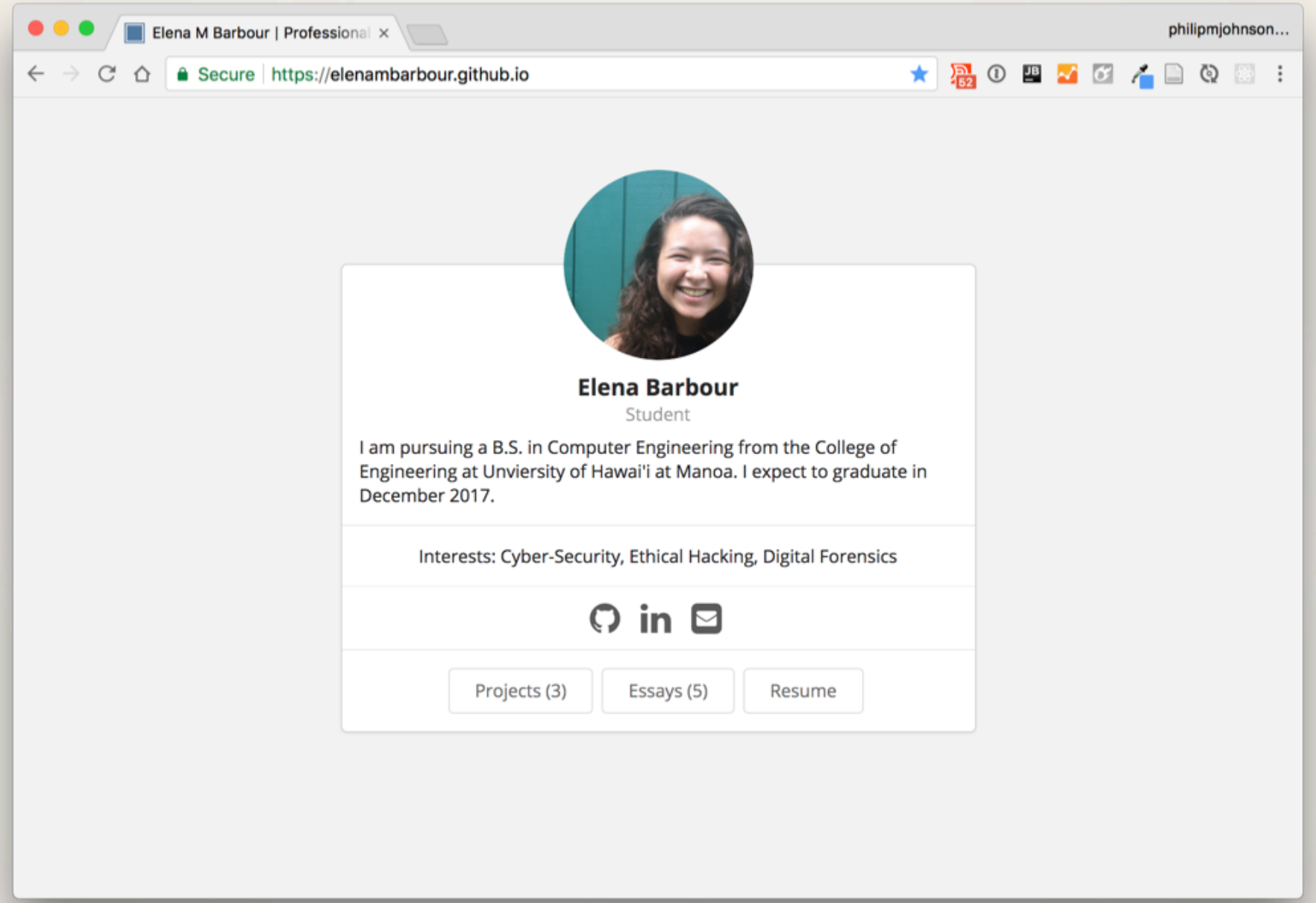
If you have ever tried to build a technical portfolio site using a blogging platform such as WordPress, you know it takes time and the results are not always satisfactory.

The goal of TechFolios is to provide a quick and easy way to build a high quality technical portfolio site, while still enabling custom layout if desired.

Sites built with TechFolio have the following components:

- A **home** page with basic biographical information;
- A **projects** page with pointers to subpages or external sites.
- An **essays** page highlighting your technical writing.
- A **resume** page presenting your online resume.
- **Links** to your professional network sites.

Click on the image to the left to browse a template site for a hypothetical computer science student named Molly Maluhia. Then come back to this page to learn more and get started.

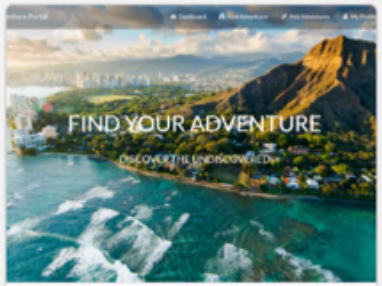

Elena M Barbour | Professional
philipmjohnson...
Secure
https://elenambarbour.github.io
Elena Barbour
Student
I am pursuing a B.S. in Computer Engineering from the College of Engineering at Unviersity of Hawai'i at Manoa. I expect to graduate in December 2017.
Interests: Cyber-Security, Ethical Hacking, Digital Forensics
Projects (3)
Essays (5)
Resume

Elena M Barbour | Professional

philipmjohnson...

Secure https://elenambarbour.github.io/projects/

Elena Barbour | Projects (3) | Essays (5) | Resume



Adventure Portal

2017

I worked in a 3 person team to develop an app for University of Hawai'i at Manoa students to discover exciting activities around the island of O'ahu to experience the adventures of the 'aina.

ServiceApp | UH Manoa

Read More

Project Imua Year 2

2016

Project Imua is back again! 3x the experiments, 3x the work, 3x the fun.

3D design | Python | Raspberry-Pi

Read More

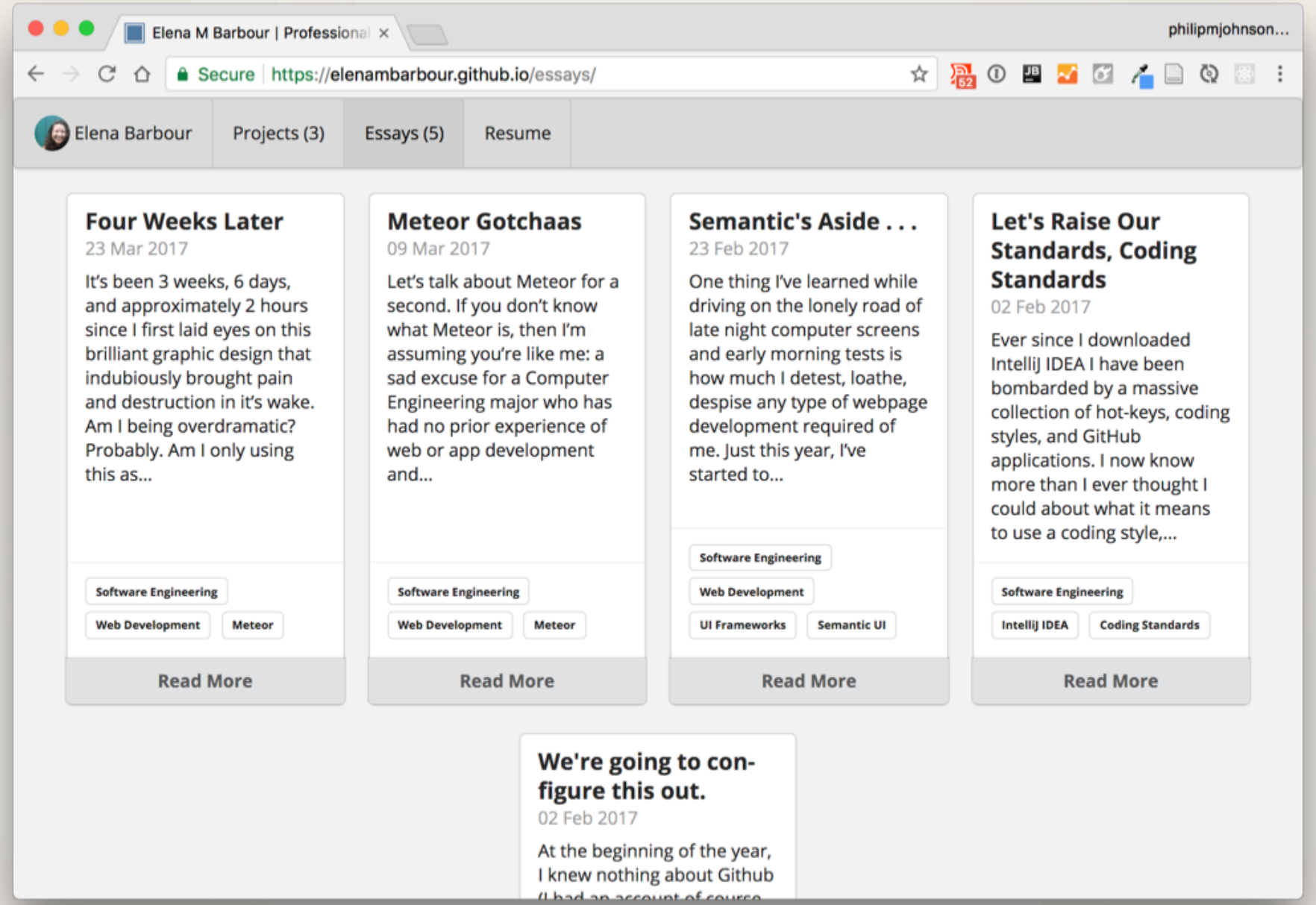
Project Imua Year 1

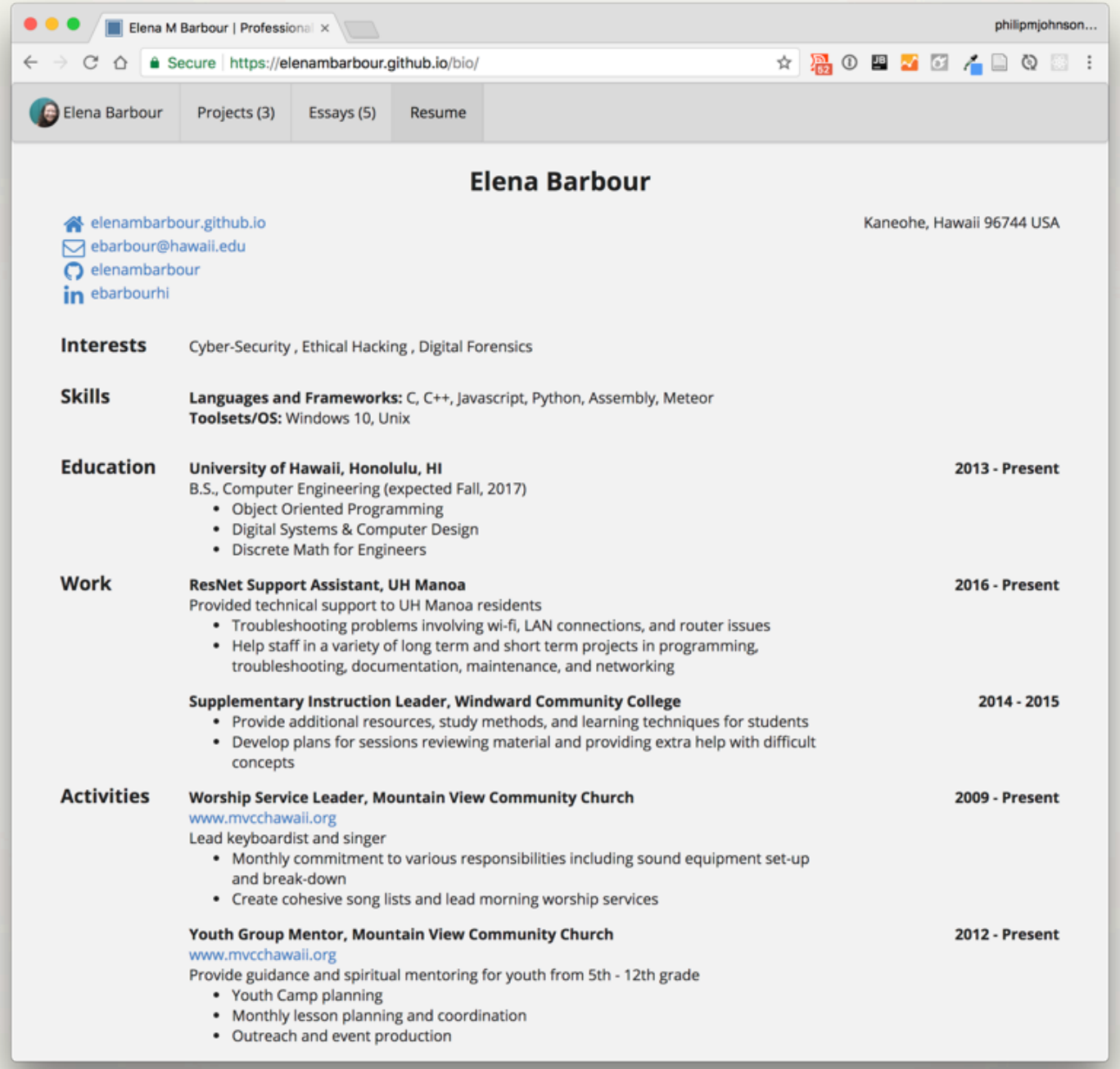
2015

I was a student fellow for the Hawai'i Space Grant Consortium and a member of Project Imua, a UH Community College collaboration.

HSGC | Arduino | C++

Read More


Elena M Barbour | Professional
philipmjohnson...
Secure https://elenambarbour.github.io/essays/
Elena Barbour
Projects (3)
Essays (5)
Resume
Four Weeks Later
23 Mar 2017
It's been 3 weeks, 6 days, and approximately 2 hours since I first laid eyes on this brilliant graphic design that indubiously brought pain and destruction in it's wake. Am I being overdramatic? Probably. Am I only using this as...
Software Engineering
Web Development
Meteor
Read More
Meteor Gotchaas
09 Mar 2017
Let's talk about Meteor for a second. If you don't know what Meteor is, then I'm assuming you're like me: a sad excuse for a Computer Engineering major who has had no prior experience of web or app development and...
Software Engineering
Web Development
Meteor
Read More
Semantic's Aside . . .
23 Feb 2017
One thing I've learned while driving on the lonely road of late night computer screens and early morning tests is how much I detest, loathe, despise any type of webpage development required of me. Just this year, I've started to...
Software Engineering
Web Development
UI Frameworks
Semantic UI
Read More
Let's Raise Our Standards, Coding Standards
02 Feb 2017
Ever since I downloaded IntelliJ IDEA I have been bombarded by a massive collection of hot-keys, coding styles, and GitHub applications. I now know more than I ever thought I could about what it means to use a coding style,...
Software Engineering
IntelliJ IDEA
Coding Standards
Read More
We're going to con-figure this out.
02 Feb 2017
At the beginning of the year, I knew nothing about Github



Elena Barbour

elenambarbour.github.io
ebarbour@hawaii.edu
elenambarbour
ebarbourhi

Kaneohe, Hawaii 96744 USA

Interests Cyber-Security , Ethical Hacking , Digital Forensics

Skills
Languages and Frameworks: C, C++, Javascript, Python, Assembly, Meteor
Toolsets/OS: Windows 10, Unix

Education

University of Hawaii, Honolulu, HI — **2013 - Present**
B.S., Computer Engineering (expected Fall, 2017)
- Object Oriented Programming
- Digital Systems & Computer Design
- Discrete Math for Engineers

Work

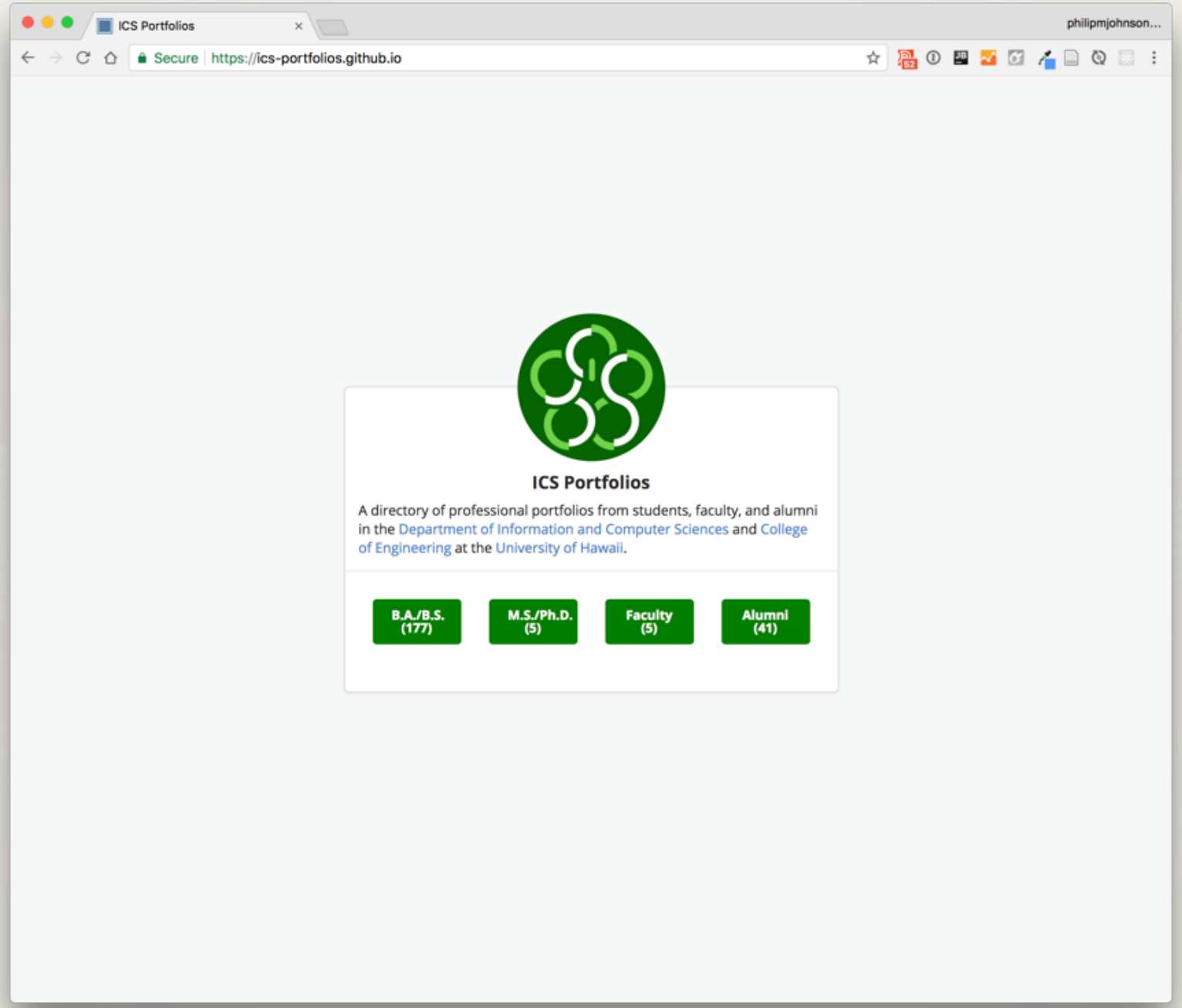
ResNet Support Assistant, UH Manoa — **2016 - Present**
Provided technical support to UH Manoa residents
- Troubleshooting problems involving wi-fi, LAN connections, and router issues
- Help staff in a variety of long term and short term projects in programming, troubleshooting, documentation, maintenance, and networking

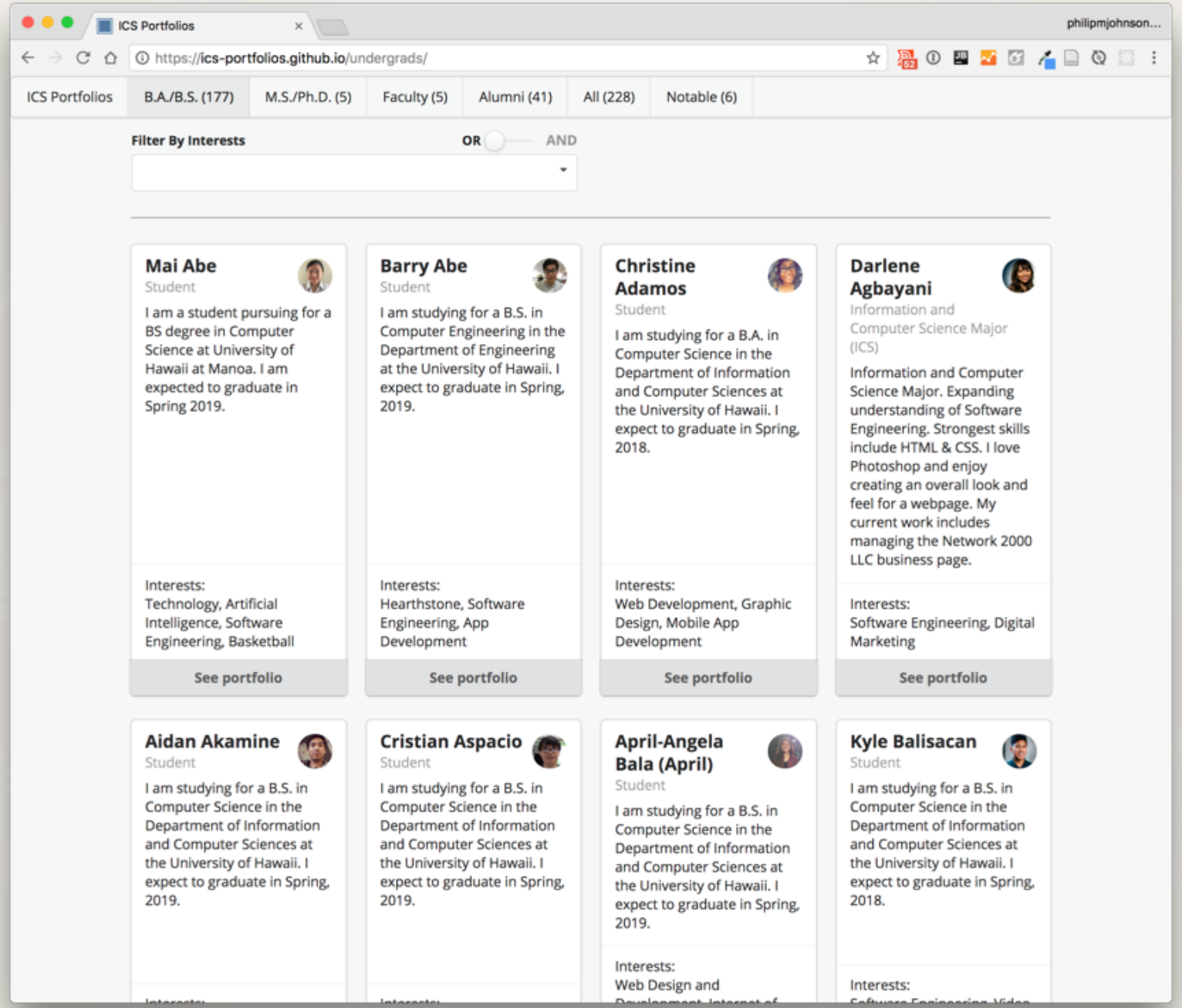
Supplementary Instruction Leader, Windward Community College — **2014 - 2015**
- Provide additional resources, study methods, and learning techniques for students
- Develop plans for sessions reviewing material and providing extra help with difficult concepts

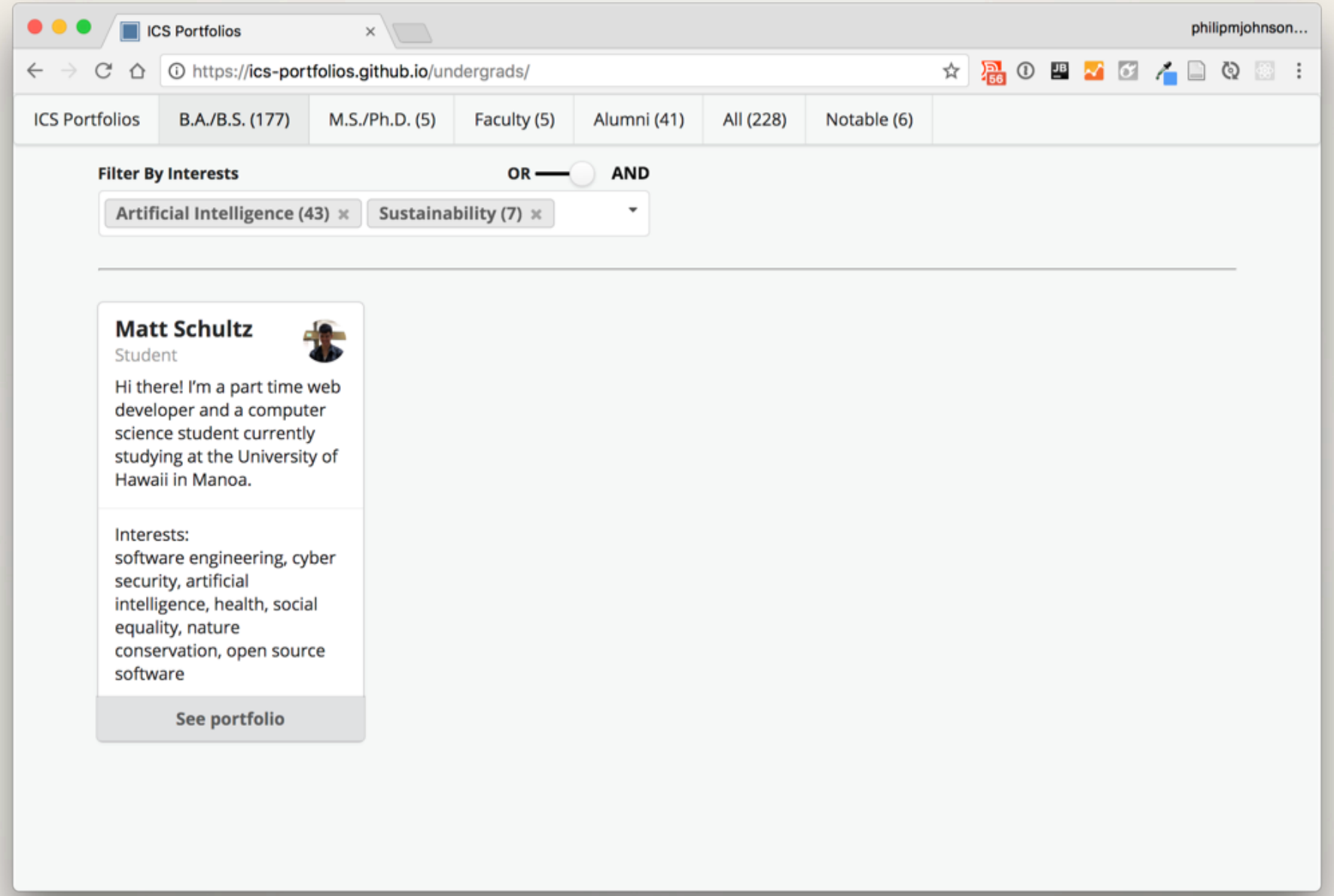
Activities

Worship Service Leader, Mountain View Community Church — **2009 - Present**
www.mvcchawaii.org
Lead keyboardist and singer
- Monthly commitment to various responsibilities including sound equipment set-up and break-down
- Create cohesive song lists and lead morning worship services

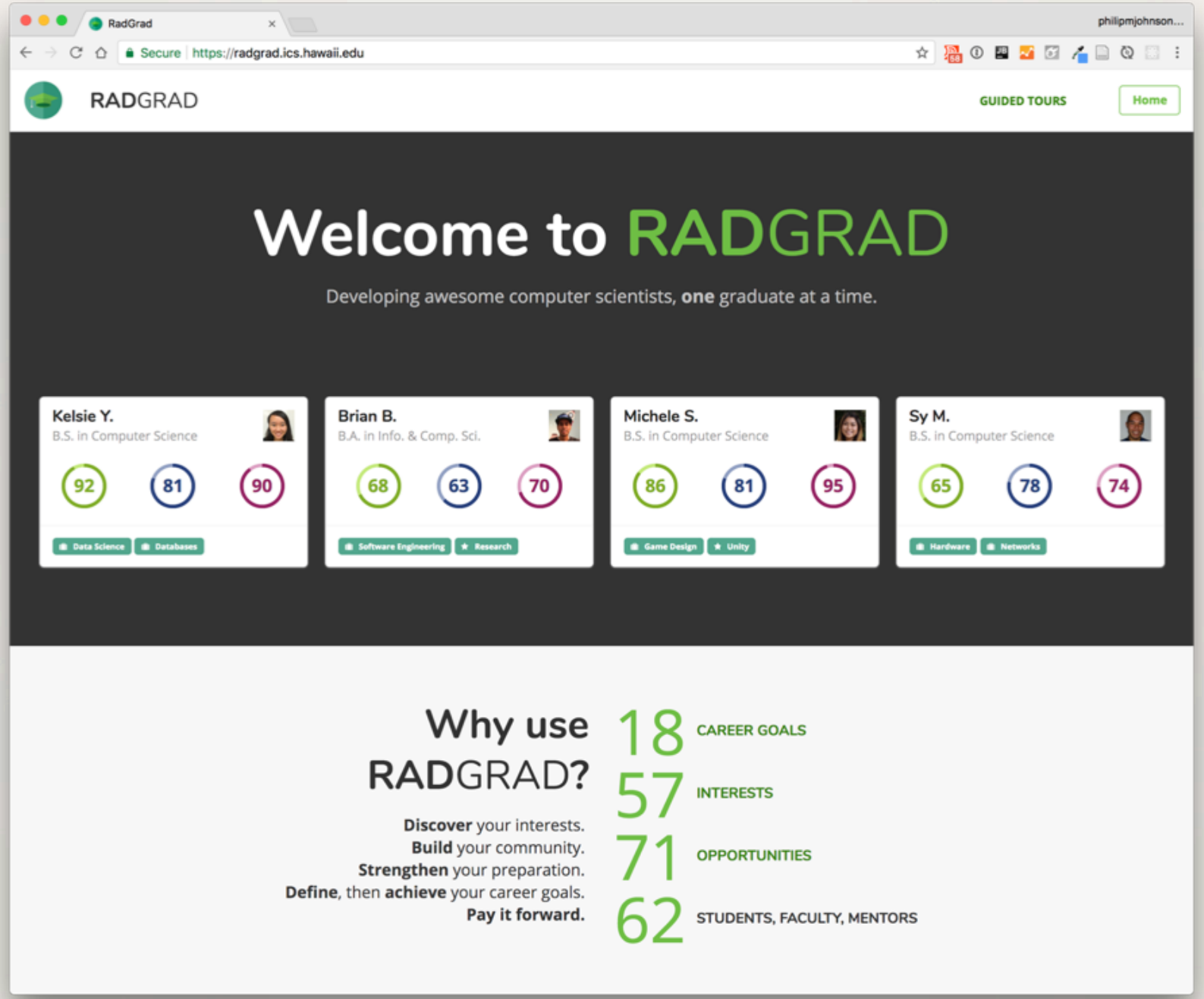
Youth Group Mentor, Mountain View Community Church — **2012 - Present**
www.mvcchawaii.org
Provide guidance and spiritual mentoring for youth from 5th - 12th grade
- Youth Camp planning
- Monthly lesson planning and coordination
- Outreach and event production


ICS Portfolios
philipmjohnson...
Secure
https://ics-portfolios.github.io
ICS Portfolios
A directory of professional portfolios from students, faculty, and alumni in the Department of Information and Computer Sciences and College of Engineering at the University of Hawaii.
B.A./B.S. (177)
M.S./Ph.D. (5)
Faculty (5)
Alumni (41)


ICS Portfolios
philipmjohnson...
https://ics-portfolios.github.io/undergrads/
ICS Portfolios
B.A./B.S. (177)
M.S./Ph.D. (5)
Faculty (5)
Alumni (41)
All (228)
Notable (6)
Filter By Interests
OR
AND
Mai Abe
Student
I am a student pursuing for a BS degree in Computer Science at University of Hawaii at Manoa. I am expected to graduate in Spring 2019.
Interests:
Technology, Artificial Intelligence, Software Engineering, Basketball
See portfolio
Barry Abe
Student
I am studying for a B.S. in Computer Engineering in the Department of Engineering at the University of Hawaii. I expect to graduate in Spring, 2019.
Interests:
Hearthstone, Software Engineering, App Development
See portfolio
Christine Adamos
Student
I am studying for a B.A. in Computer Science in the Department of Information and Computer Sciences at the University of Hawaii. I expect to graduate in Spring, 2018.
Interests:
Web Development, Graphic Design, Mobile App Development
See portfolio
Darlene Agbayani
Information and Computer Science Major (ICS)
Information and Computer Science Major. Expanding understanding of Software Engineering. Strongest skills include HTML & CSS. I love Photoshop and enjoy creating an overall look and feel for a webpage. My current work includes managing the Network 2000 LLC business page.
Interests:
Software Engineering, Digital Marketing
See portfolio
Aidan Akamine
Student
I am studying for a B.S. in Computer Science in the Department of Information and Computer Sciences at the University of Hawaii. I expect to graduate in Spring, 2019.
Cristian Aspacio
Student
I am studying for a B.S. in Computer Science in the Department of Information and Computer Sciences at the University of Hawaii. I expect to graduate in Spring, 2019.
April-Angela Bala (April)
Student
I am studying for a B.S. in Computer Science in the Department of Information and Computer Sciences at the University of Hawaii. I expect to graduate in Spring, 2019.
Interests:
Web Design and
Kyle Balisacan
Student
I am studying for a B.S. in Computer Science in the Department of Information and Computer Sciences at the University of Hawaii. I expect to graduate in Spring, 2018.
Interests:


ICS Portfolios
philipmjohnson...
https://ics-portfolios.github.io/undergrads/
ICS Portfolios
B.A./B.S. (177)
M.S./Ph.D. (5)
Faculty (5)
Alumni (41)
All (228)
Notable (6)
Filter By Interests
OR
AND
Artificial Intelligence (43)
Sustainability (7)
Matt Schultz
Student
Hi there! I'm a part time web developer and a computer science student currently studying at the University of Hawaii in Manoa.
Interests:
software engineering, cyber security, artificial intelligence, health, social equality, nature conservation, open source software
See portfolio

Research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RADGRAD
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Home
Welcome to RADGRAD
Developing awesome computer scientists, one graduate at a time.
Kelsie Y.
B.S. in Computer Science
92
81
90
Data Science
Databases
Brian B.
B.A. in Info. & Comp. Sci.
68
63
70
Software Engineering
Research
Michele S.
B.S. in Computer Science
86
81
95
Game Design
Unity
Sy M.
B.S. in Computer Science
65
78
74
Hardware
Networks
Why use RADGRAD?
Discover your interests.
Build your community.
Strengthen your preparation.
Define, then achieve your career goals.
Pay it forward.
18 CAREER GOALS
57 INTERESTS
71 OPPORTUNITIES
62 STUDENTS, FACULTY, MENTORS

RadGrad

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RADGRAD

GUIDED TOURS

Home

Specify your degree, career goals, and interests

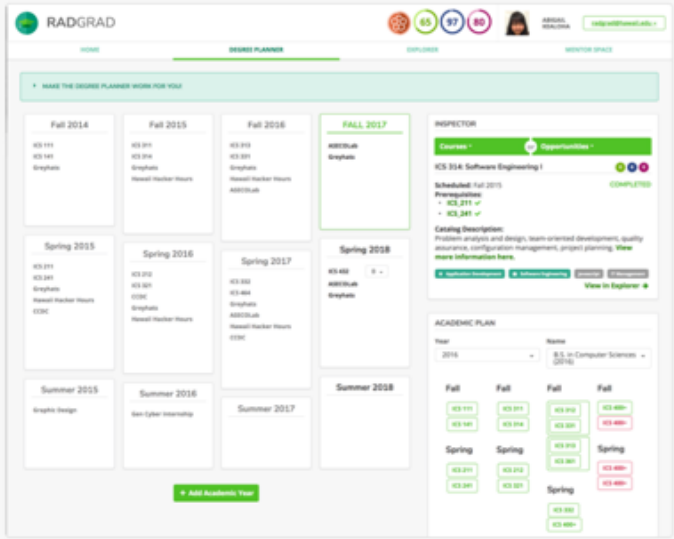
Getting started with RadGrad is easy. Just meet with your advisor, and they will set up your account and answer your questions.

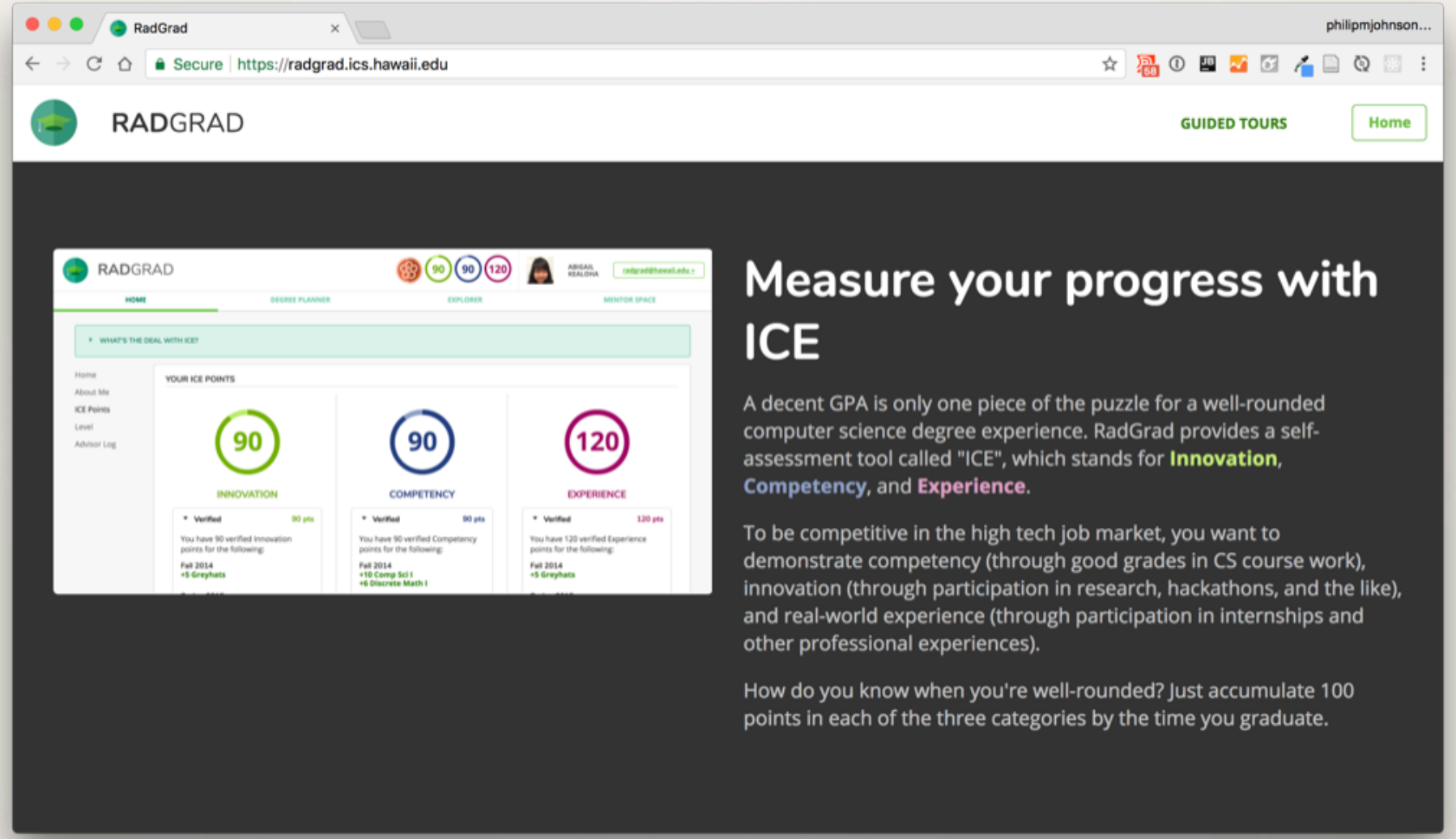
To start, you'll select one of the **3 degree programs**, one out of **18 career directions**, and a few of the **57 interest areas**. Don't worry, you can change them later!

Generate a custom degree experience

Based on your degree, career goals, and interests, RadGrad helps you plan what you'll do each semester: not just the classes you'll take, but also *relevant* extracurricular opportunities such as hackathons, internships, clubs, and more. RadGrad currently provides you with **71** opportunities to choose from, with more on the way!

RadGrad recognizes that what you do outside of class is sometimes just as important as what you do in it.

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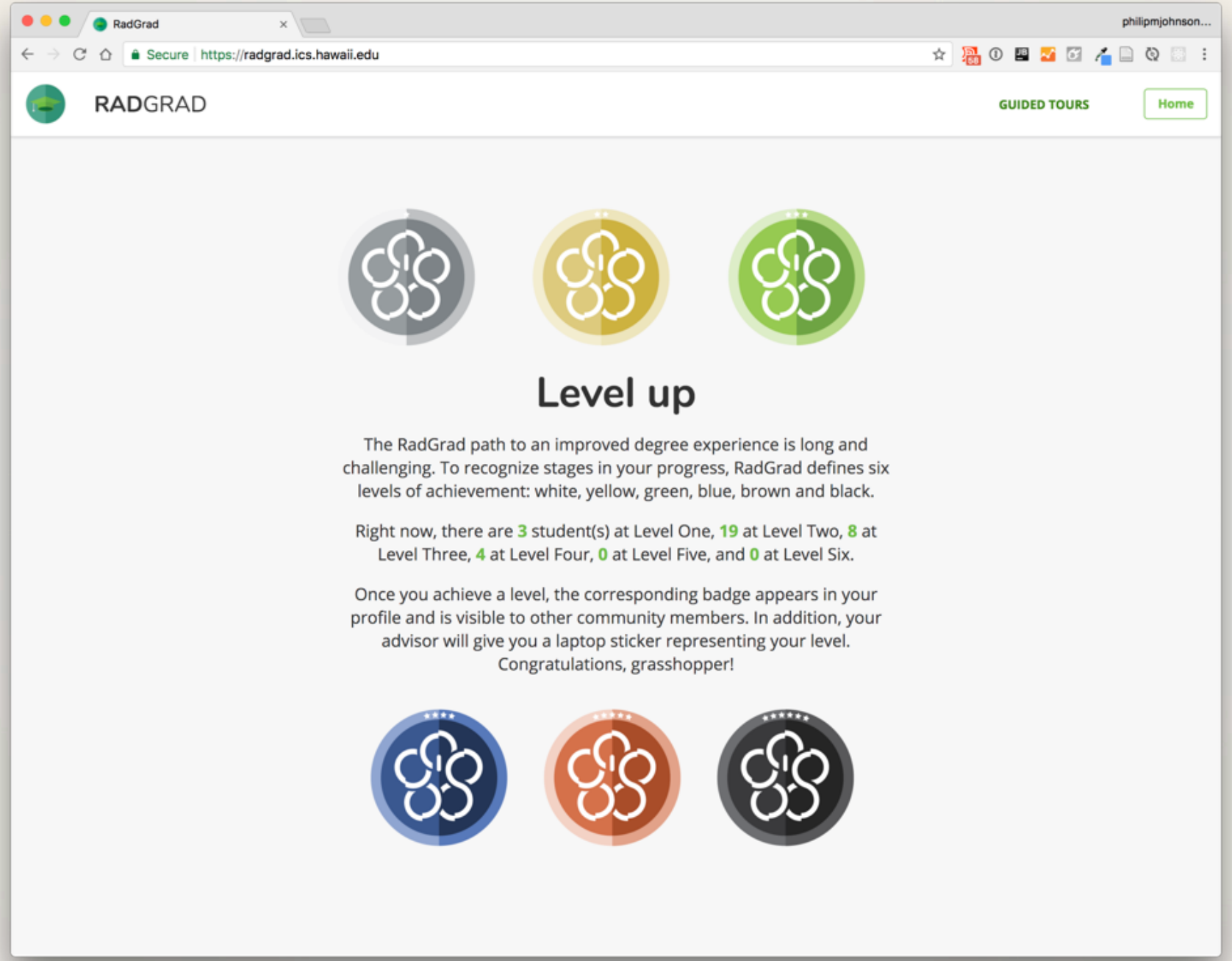
EXPLORER
MENTOR SPACE
WHAT'S THE DEAL WITH ICE?
YOUR ICE POINTS
90
90
120
INNOVATION
COMPETENCY
EXPERIENCE
Measure your progress with ICE
A decent GPA is only one piece of the puzzle for a well-rounded computer science degree experience. RadGrad provides a self-assessment tool called "ICE", which stands for Innovation, Competency, and Experience.
To be competitive in the high tech job market, you want to demonstrate competency (through good grades in CS course work), innovation (through participation in research, hackathons, and the like), and real-world experience (through participation in internships and other professional experiences).
How do you know when you're well-rounded? Just accumulate 100 points in each of the three categories by the time you graduate.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RADGRAD
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Home
Level up
The RadGrad path to an improved degree experience is long and challenging. To recognize stages in your progress, RadGrad defines six levels of achievement: white, yellow, green, blue, brown and black.
Right now, there are 3 student(s) at Level One, 19 at Level Two, 8 at Level Three, 4 at Level Four, 0 at Level Five, and 0 at Level Six.
Once you achieve a level, the corresponding badge appears in your profile and is visible to other community members. In addition, your advisor will give you a laptop sticker representing your level. Congratulations, grasshopper!

RadGrad philipmjohnson...

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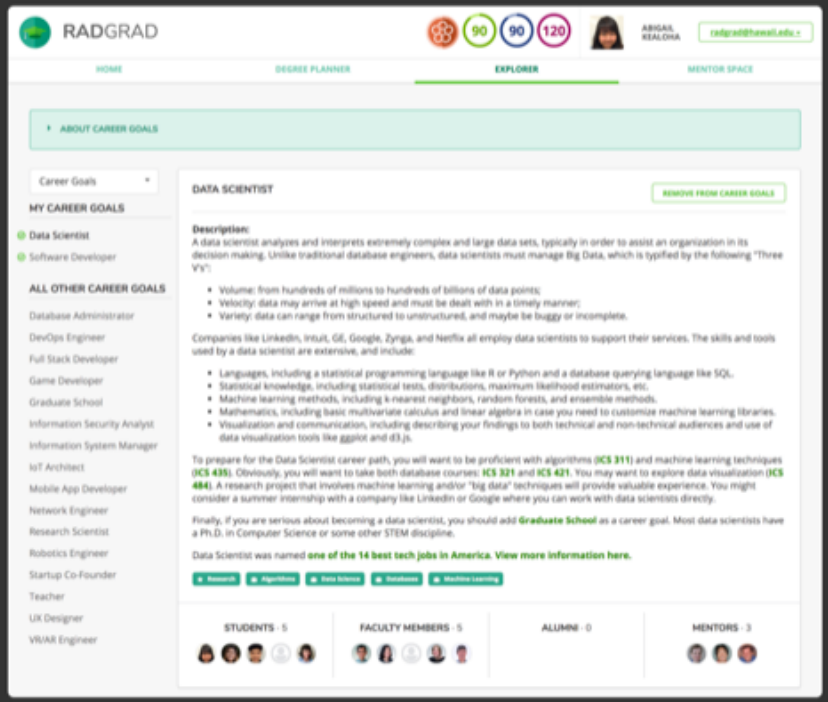
RADGRAD GUIDED TOURS Home

Discover new directions

Computer science is changing all the time, and so your interests and career goals might evolve as well.

RadGrad provides "Explorers" for career goals, interests, degrees, and more so you can stay on top of the latest trends. For example, RadGrad's career goals include: **Data Scientist, Database Administrator, DevOps Engineer, Full Stack Developer, Game Developer, Graduate School, Information Security Analyst, Information System Manager, IoT Architect, Mobile App Developer, Network Engineer, Research Scientist, Robotics Engineer, Software Developer, Startup Co-Founder, Teacher, UX Designer, VR/AR Engineer.**



RadGrad philipmjohnson...

Secure https://radgrad.ics.hawaii.edu

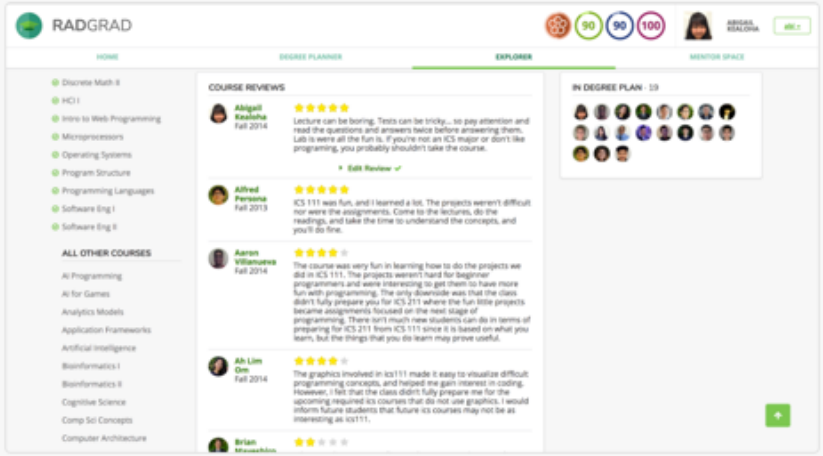
RADGRAD GUIDED TOURS Home

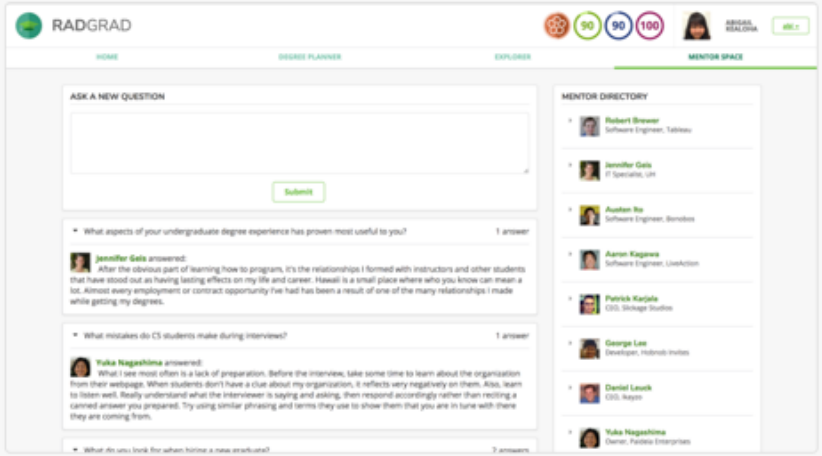
Pay it forward

RadGrad offers opportunities for students to give back to their academic community both during their degree program and after they graduate.

During your time as a student, you can provide advice about courses you've already taken to those coming after you. Students have contributed 64 course reviews so far.

After you graduate, you can become a mentor, and answer student questions about life after graduation and how to best prepare for it. We have 6 mentors from locations including: Palo Alto, CA, Honolulu, HI, New York City, NY, San Francisco, CA.





Home | Open Power Quality

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openpowerquality.org

Open Power Quality | Home | Organization | Manual | Slack | Publications | News

Find OPQ on GitHub

Welcome to Open Power Quality

Open source hardware, software, and data for low cost, crowd-sourced power quality monitoring, storage, and analysis

Designed for utilities, campuses, renewable energy providers, power specialists, consumers, and anyone else who wants increased use of renewable energy sources.




Our target users include macro-grid providers (electrical utilities), micro-grid providers (military, academia, and large corporations), renewable energy providers, power quality specialists, and even everyday consumers interested in their power quality.

See the community page for more details on these user groups.

Our ultimate goal is to help society move from reliance on fossil fuels to more efficient, robust, and renewable energy sources.

Home | Open Power Quality

openpowerquality.org

Open Power Quality | Home | Organization | Manual | Slack | Publications | News

OPQBox: Low cost, open source hardware

Our OPQBox costs less than US$100 to manufacture, and the schematics are published under an open source hardware license if you want to build it yourself.

We want to create and support an ecosystem of hardware developers that accelerate the development of new designs to satisfy different needs.

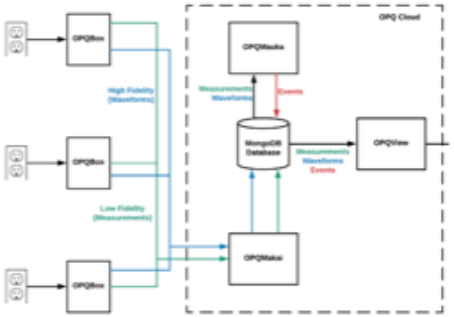
OPQ Cloud: A suite of cloud-based, open source software services

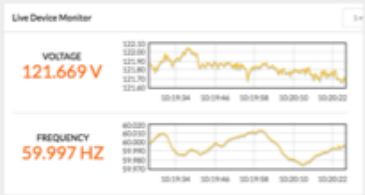
Each OPQBox sends power quality events and data to our collection of cloud-based services: OPQ Mauka, OPQ Makai, and OPQ View.

OPQ cloud services can be installed and run locally, or deployed to a hosting environment. We also host an instance ourselves.

For consumers, this means that you can easily determine if a power quality problem is local to your own house or is more widespread in your neighborhood or city by accessing our hosted cloud services.

For organizations, this means you can deploy OPQBoxes throughout your facility, and install OPQ Cloud yourself if you want to keep your power quality information private.





OPQ View: Open source analytics for the smart grid

Uploading the raw data is only the start. The real power of the OPQ ecosystem is the kinds of analytics it makes possible.

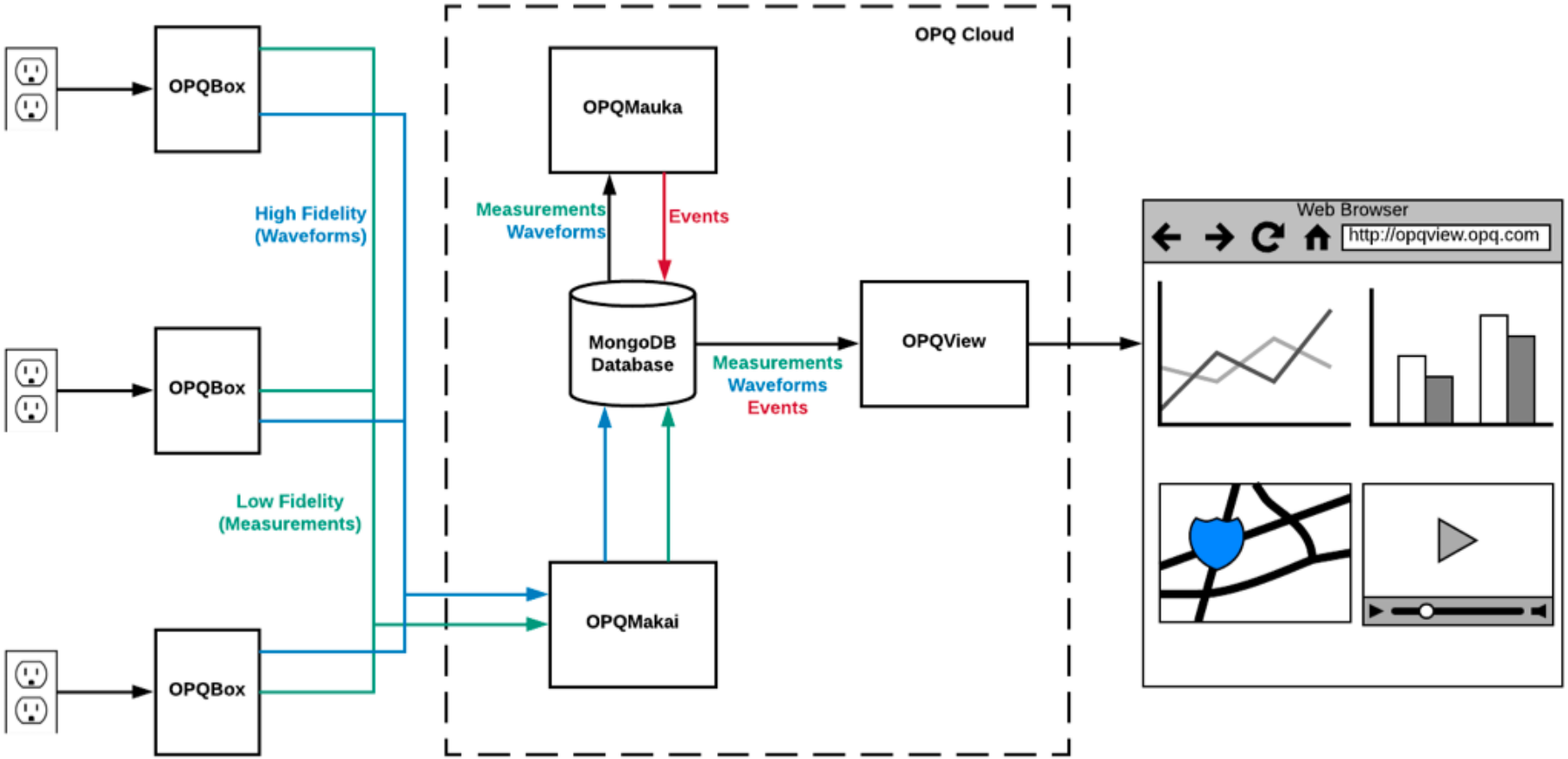
First, each OPQBox is associated with an owner-supplied location, such as a zipcode. This enables OPQ View to provide geographic views of power quality data, which can be superimposed with substation information from the utility provider.

Second, the community nature of OPQ data makes it trivial to determine if a power quality event is local to you or more widespread on the grid.

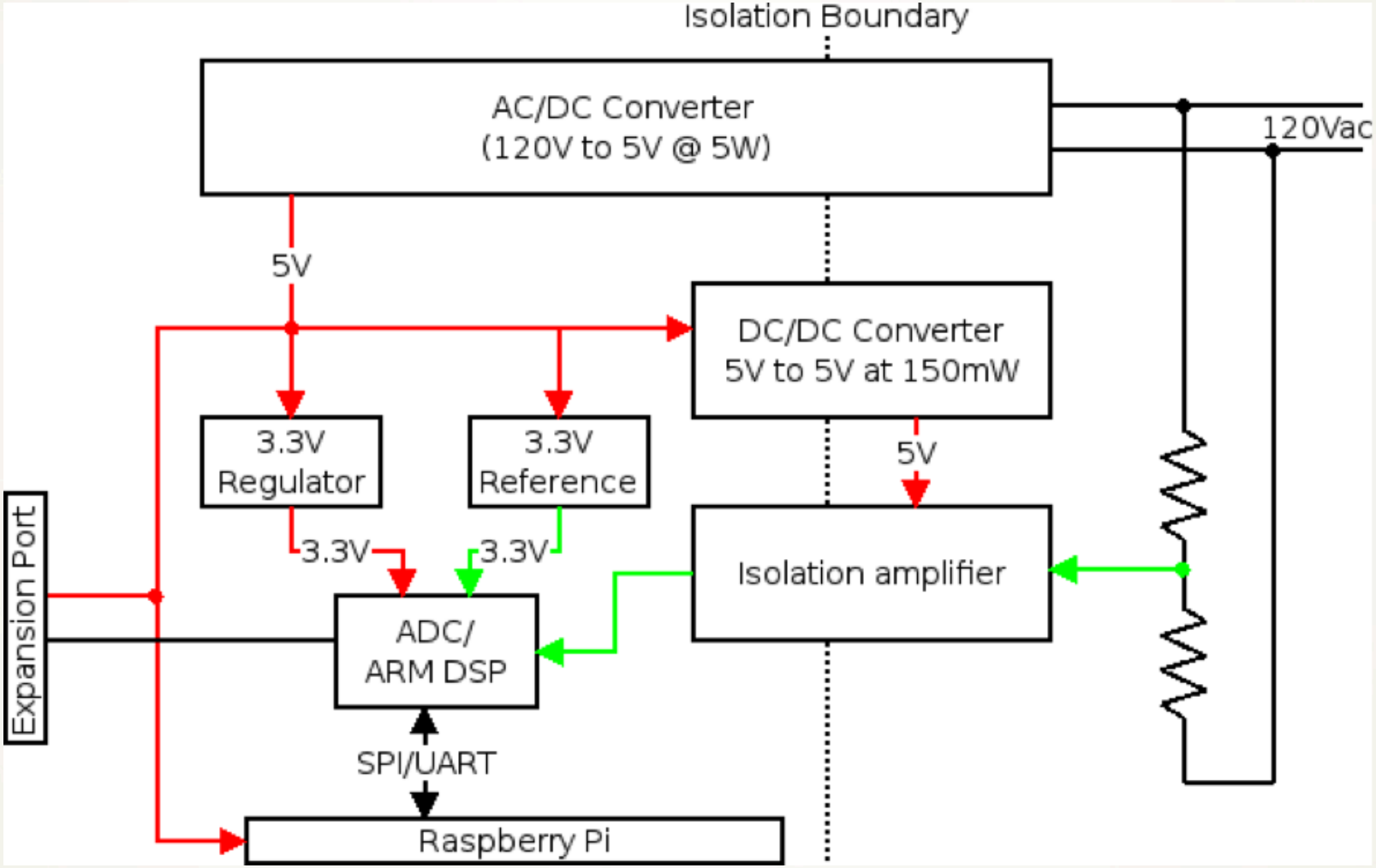
Third, correlation of power quality data with other forms of information can provide valuable insight into the impact of renewable energy. For example, are power quality events more common in areas with high concentration of rooftop solar? Do power quality events correlate with weather data---for example, a rapidly moving cloud cover?

The OPQ architecture is designed to support "plugin" analytics. Have an idea for a new analytic? Let us know!

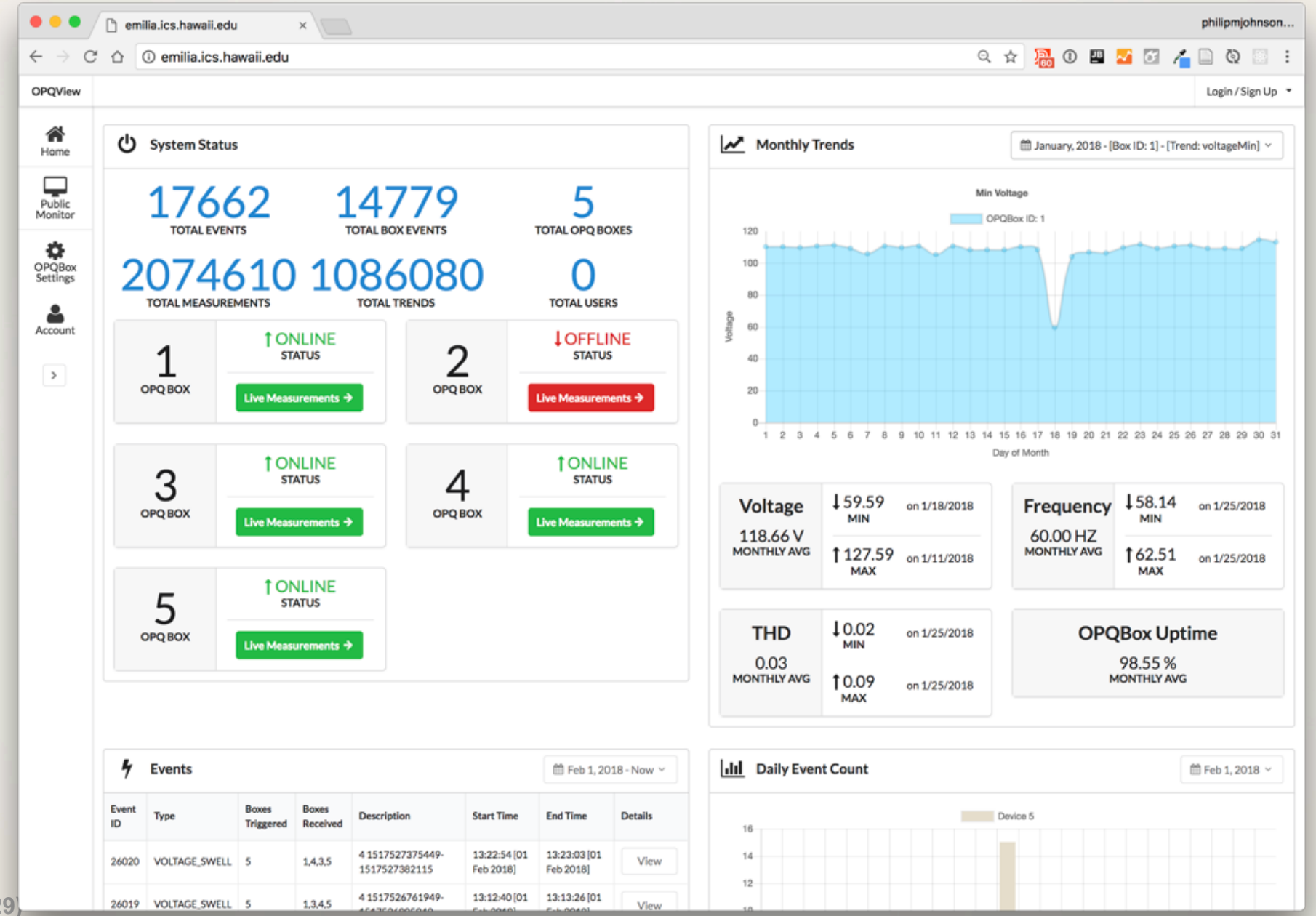
OPQ System Diagram



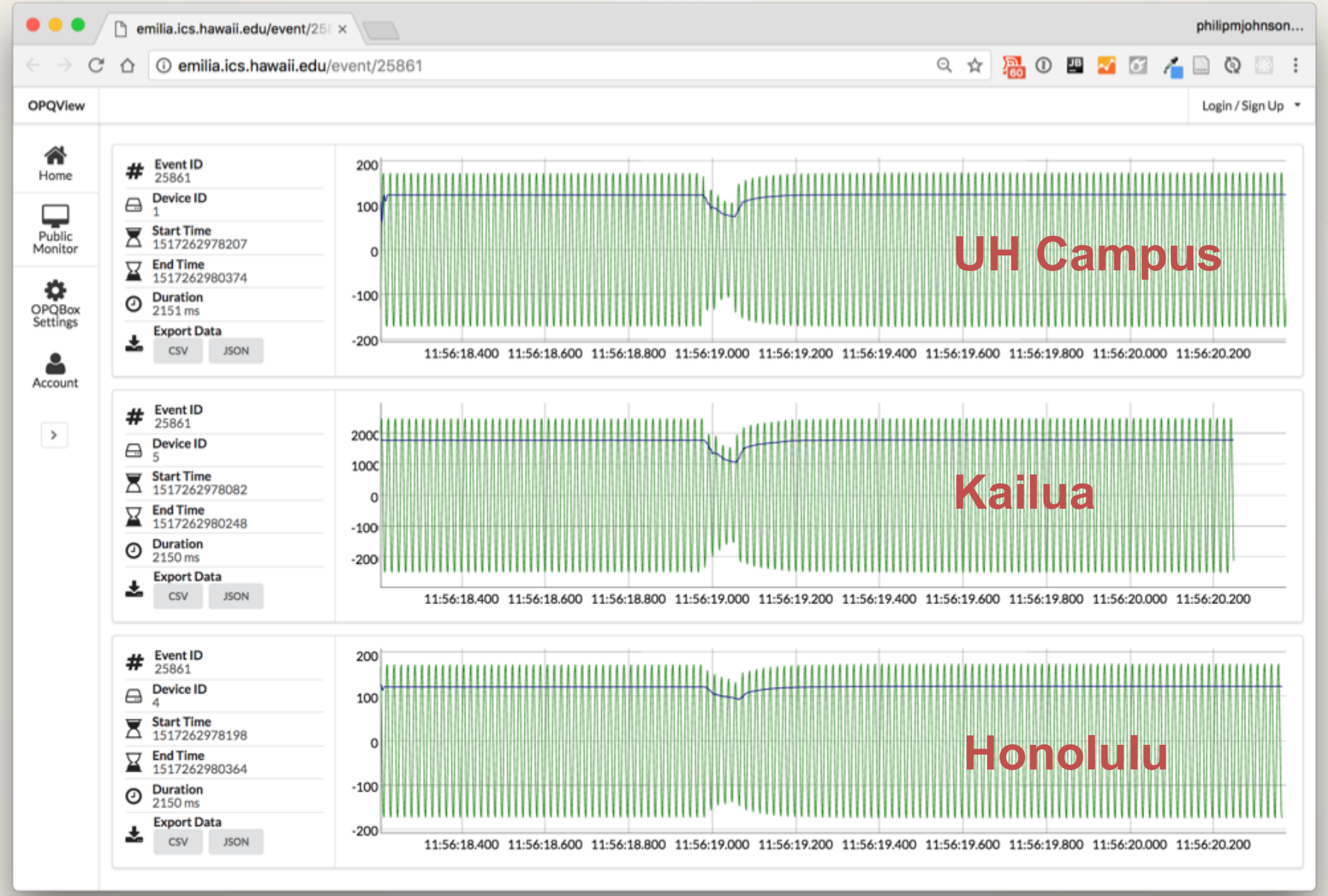
OPQBox component diagram



OPQView


emilia.ics.hawaii.edu
philipmjohnson...
emilia.ics.hawaii.edu
OPQView
Login / Sign Up
Home
Public Monitor
OPQBox Settings
Account
System Status
17662
TOTAL EVENTS
14779
TOTAL BOX EVENTS
5
TOTAL OPQ BOXES
2074610
TOTAL MEASUREMENTS
1086080
TOTAL TRENDS
0
TOTAL USERS
1
OPQ BOX
ONLINE
STATUS
Live Measurements
2
OPQ BOX
OFFLINE
STATUS
Live Measurements
3
OPQ BOX
ONLINE
STATUS
Live Measurements
4
OPQ BOX
ONLINE
STATUS
Live Measurements
5
OPQ BOX
ONLINE
STATUS
Live Measurements
Monthly Trends
January, 2018 - [Box ID: 1] - [Trend: voltageMin]
Min Voltage
OPQBox ID: 1
Voltage
Day of Month
Voltage
118.66 V
MONTHLY AVG
59.59
MIN
on 1/18/2018
127.59
MAX
on 1/11/2018
Frequency
60.00 HZ
MONTHLY AVG
58.14
MIN
on 1/25/2018
62.51
MAX
on 1/25/2018
THD
0.03
MONTHLY AVG
0.02
MIN
on 1/25/2018
0.09
MAX
on 1/25/2018
OPQBox Uptime
98.55 %
MONTHLY AVG
Events
Feb 1, 2018 - Now
Event ID
Type
Boxes Triggered
Boxes Received
Description
Start Time
End Time
Details
26020
VOLTAGE_SWELL
5
1,4,3,5
4 1517527375449-1517527382115
13:22:54 [01 Feb 2018]
13:23:03 [01 Feb 2018]
View
26019
VOLTAGE_SWELL
5
1,3,4,5
4 1517526761949-
13:12:40 [01
13:13:26 [01
View
Daily Event Count
Feb 1, 2018
Device 5

Campus Power Outage (Mon, Jan 29, 2017)



Future directions

Short term

- OPQ kickstarter campaign
- RadGrad deployments, grants
- EE 467

Medium term

- EE-Portfolios
- Courses.EE
- Professional M.S. in SE

Long term (for UH):

- ICS: information sciences
- EE: technical design and implementation
- ITM: technical management

Should software engineering be an institutional priority at UH?

Where should the organization home for software engineering be at UH?

How should UH build its software engineering program?