Student Success Stories

Mathematics and Computer Science

CLARK UNIVERSITY

CHALLENGE CONVENTION. CHANGE OUR WORLD.

With a patent in the offing, Clark University math/computer science student is set to join Amazon

Natalia Sternberg, chair of the Mathematics and Computer Science Department, received an email that delivered the sort of student feedback that gladdens any teacher's heart:

"Hi Professor Sternberg, I just wanted to share some good news with you. Amazon[.com] emailed me and they said there is a possibility that I might be an inventor of something and my name will be on a patent!"

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Clark University alum
Elena Zhizhimontova

Clark math and computer science students shine at national, regional competitions; move on to internships and jobs

The hard work and dedication of members of Clark's Department of Mathematics and Computer Science is borne out by the successes of its students over the course of the academic year. Several graduates are moving on to prestigious companies or graduate programs, including:

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Google

amazon

wayfair

Carnegie Mellon University

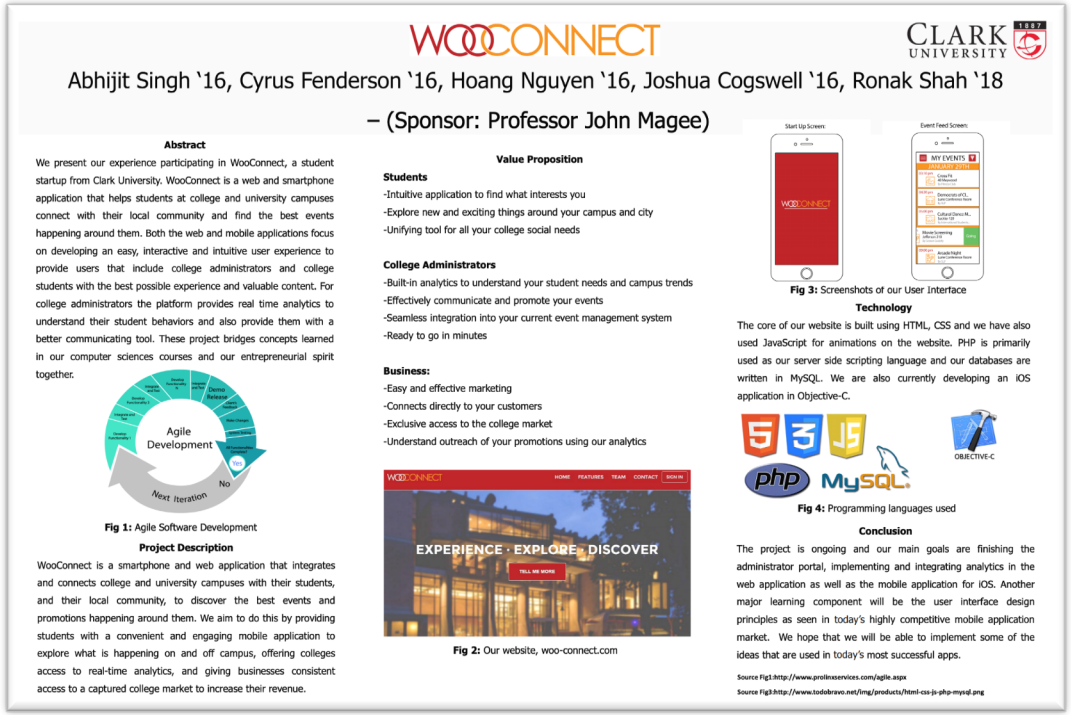
Microsoft

Berkeley UNIVERSITY OF CALIFORNIA



Clark contest participants at the Consortium for Computing Sciences in Colleges (CCSC) —Northeastern Region Conference

Computer science students programmed for success



WOOCONNECT

CLARK UNIVERSITY 1887

Abhijit Singh '16, Cyrus Fenderson '16, Hoang Nguyen '16, Joshua Cogswell '16, Ronak Shah '18

– (Sponsor: Professor John Magee)

Abstract

We present our experience participating in WooConnect, a student startup from Clark University. WooConnect is a web and smartphone application that helps students at college and university campuses connect with their local community and find the best events happening around them. Both the web and mobile applications focus on developing an easy, interactive and intuitive user experience to provide users that include college administrators and college students with the best possible experience and valuable content. For college administrators the platform provides real time analytics to understand their student behaviors and also provide them with a better communicating tool. These project bridges concepts learned in our computer sciences courses and our entrepreneurial spirit together.

Agile Development

Next Iteration

No

Fig 1: Agile Software Development

Project Description

WooConnect is a smartphone and web application that integrates and connects college and university campuses with their students, and their local community, to discover the best events and promotions happening around them. We aim to do this by providing students with a convenient and engaging mobile application to explore what is happening on and off campus, offering colleges access to real-time analytics, and giving businesses consistent access to a captured college market to increase their revenue.

Value Proposition

Students

-Intuitive application to find what interests you

-Explore new and exciting things around your campus and city

-Unifying tool for all your college social needs

College Administrators

-Built-in analytics to understand your student needs and campus trends

-Effectively communicate and promote your events

-Seamless integration into your current event management system

-Ready to go in minutes

Business:

-Easy and effective marketing

-Connects directly to your customers

-Exclusive access to the college market

-Understand outreach of your promotions using our analytics

EXPERIENCE · EXPLORE · DISCOVER

Fig 2: Our website, woo-connect.com

Start Up Screen:

Event Feed Screen:

Fig 3: Screenshots of our User Interface

Technology

The core of our website is built using HTML, CSS and we have also used JavaScript for animations on the website. PHP is primarily used as our server side scripting language and our databases are written in MySQL. We are also currently developing an iOS application in Objective-C.

Fig 4: Programming languages used

Conclusion

The project is ongoing and our main goals are finishing the administrator portal, implementing and integrating analytics in the web application as well as the mobile application for iOS. Another major learning component will be the user interface design principles as seen in today's highly competitive mobile application market. We hope that we will be able to implement some of the ideas that are used in today's most successful apps.

Source Fig1:http://www.prolinxservices.com/agile.aspx

Source Fig3:http://www.todobravo.net/img/products/html-css-js-php-mysql.png

WooConnect is a student startup from Clark University. WooConnect is a web and smartphone application that helps students at college and university campuses connect with their local community and find the best events happening around them.

Clark University computer science students make their debut at the annual Association for Computing Machinery International Collegiate Programming Contest (ICPC) & New England Undergraduate Computing Symposium. Many MathCS students pursue summer internships and research opportunities including the following programs:

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facebook

FedEx Corporation

Quantum Networks

Computer science grads land jobs at Facebook, Amazon and more

Holding an Amazon Echo device, Jake Kramer speaks to computer science students at Clark University while visiting professor Kenneth Basye watches from the audience.



When students at more than 1,000 colleges and universities ranked the companies where they'd like to work, the top six probably drew little surprise: Google, Apple, Microsoft, Facebook, Intel and Amazon. You'll find Clark University graduates at all of these top picks, and over the past several years, Clark computer science majors have landed jobs at Facebook and Amazon right out of college.

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Clark's computer science teams make top 5 in regional programming contest

When faced with the pressure of producing computer code that works, and under the most stringent deadlines, Clark University's computer science students prove they can step up. The students solved more than six programming problems over three hours, using Java and C/C++, computer coding that is commonly employed across many platforms and industries.

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Professor John Magee stands with students participating in the regional programming contest for the Consortium for Computing Sciences in Colleges Northeast (CCSCNE).

‘Grammar’ lessons: Faculty-student team decoding language of the genome



Navid Al Hossain works with Jacqueline Dresch, assistant professor of mathematics.

“When I knew I wanted to do research, I fully expected to be in the lab working on a professor’s research or with a graduate student,” Nourie says. “I never thought I would be designing and working on my own project, for which I had conceived the idea, come up with the big research question and designed my own procedures, all with the goal of generating a publication.”

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Brendan Burgess blends the science of politics and computers

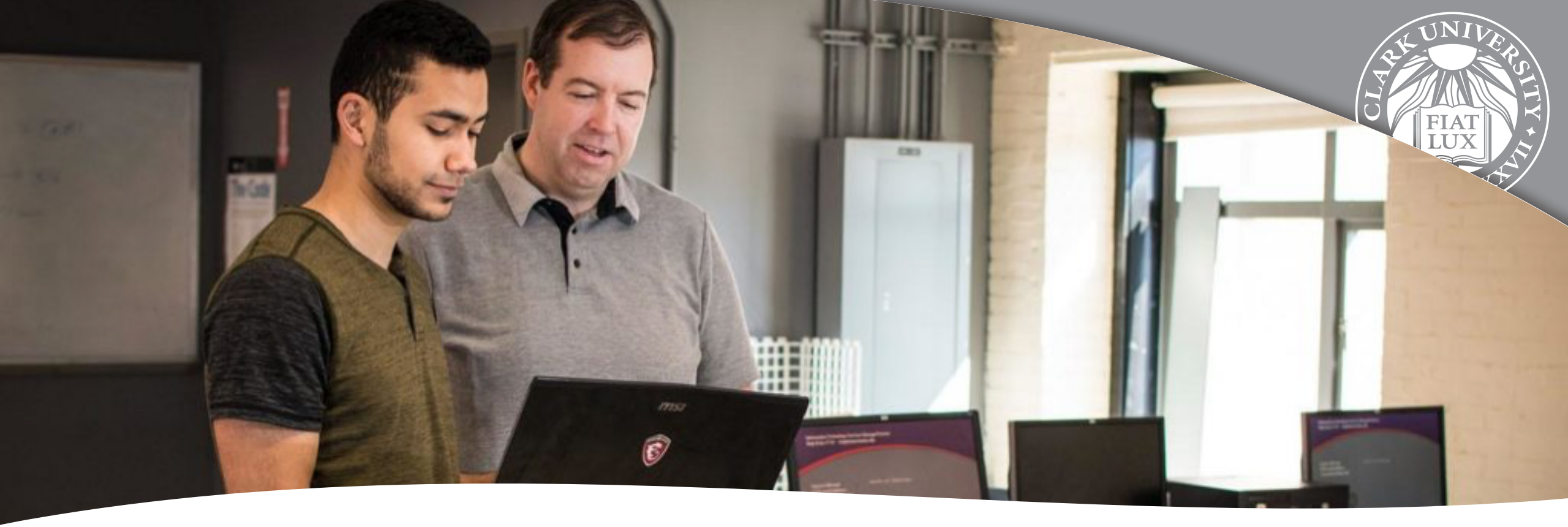


Brendan Burgess, recipient of the Phi Beta Kappa Sophomore Research Prize.

You could call Brendan Burgess ’18 a quintessential Clarkie. His double major in political science, with a concentration in international relations, and computer science sets him apart, but some first-year advice pushed him to take it a step further.

> *“I heard if you want to be involved in political science, you should have something that distinguishes you,” Burgess says. “A lot of people choose economics, but I was interested in computer science and really fell in love with the problem-solving that comes along with it.”*

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Clark professor, students find the humanity in computer research

Clark University computer scientist John Magee applies his expertise in human-computer interaction to help others – people with disabilities and, more recently, middle-school students. And by inviting Clark LEEP Fellows and other undergraduates to join his research projects, he's giving students the opportunity to do the same.

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Pictured above: John Magee meets with LEEP Fellow Rafael Zuniga.



Job with Amazon beckons Christian Rentsman

Christian Rentsman just graduated from Clark University — and already has a job to boot. Originally from Corona, New York, Rentsman is moving cross-country to Seattle to work as a software engineer at Amazon. He's familiar with the company, having interned there last summer.

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amazon

Computer science, mathematics students well-positioned for hi-tech futures

"We have excellent students in computer science and mathematics who have diverse interests and talents, and they play active roles in campus life. Their success demonstrates the value of a Clark education,"

~ Professor Li Han, chair of Clark's MathCS department.

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Student Success Stories

Mathematics and Computer Science

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MASSACHUSETTS • USA

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