Ayaan Kazerouni

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EDUCATION

Ph.D. Computer Science 2015-2019?
Virginia Polytechnic Institute and State University
GPA 3.86/4.0

B.S. Computer Science 2011-2015
University of West Georgia
Outstanding Honors Sophomore, Junior (2013, 2014)
GPA 3.71/4.0

WORK EXPERIENCE

Graduate Research Assistant *Virginia Tech, Blacksburg, VA* August 2015-present

- **Quantifying the programming process to help teach incremental development**
  - Deployed an Eclipse plugin to collect high-resolution IDE usage data
  - Designed metrics and interventions to help developers avoid bad practices
  - GitHub:
    - **ayaankazerouni/sensordata** – Data analysis and visualisation – (Python, R, JavaScript)
    - **web-cat/eclipse-plugins-importer-exporter:DevEventTrackerAddition** – Eclipse plugin (Java)
  - **1st place**, 2018 ACM SIGCSE Student Research Competition
- **CodeWorkout** Online drill-and-practice programming environment for novices
  - Integrated with the Canvas learning management system, and used at several US universities
  - GitHub: **web-cat/codeworkout** – (Ruby on Rails)

Instructor, Data Structures & Algorithms *Virginia Tech, Blacksburg, VA* July 2018

Front End Developer Intern *Zappos.com, Las Vegas, NV* June 2017-August 2017

- Worked on an infrastructure re-design of the Zappos and *6pm* desktop and mobile websites – (React.js, Redux)

Graduate Teaching Assistant *Virginia Tech, Blacksburg, VA* August 2015-April 2016

- Office hours, automated testing. Course: Data Structures & Algorithms

PEER-REVIEWED PUBLICATIONS

S. H. Edwards, Krishnan P. Murali, **A. M. Kazerouni**. "The Relationship Between Practicing Short Programming Exercises and Exam Performance". ACM Global Computing Education Conference (**CompEd**), May 2019. To appear.

A. M. Kazerouni, C. A. Shaffer, S. H. Edwards, F. Servant. "Assessing Incremental Testing Practices and Their Impact on Project Outcomes". ACM SIGCSE Technical Symposium (**SIGCSE**), Feb. 2019. To appear.

A. M. Kazerouni, C. A. Shaffer, S. H. Edwards. "Quantifying Incremental Development Practices and Their Relationship to Procrastination". ACM Conference on International Computing Education Research (**ICER**), Aug. 2017. 16% acceptance rate.

A. M. Kazerouni, C. A. Shaffer, T. S. Hall, S. H. Edwards. "DevEventTracker: Tracking Development Events to Assess Incremental Development and Procrastination". ACM Conference on Innovation and Technology in Computer Science Education (**ITiSCE**), Jul. 2017. 32% acceptance rate.

OTHER PROJECT EXPERIENCES

Machine Learning/Data Analytics (CS 5525) *Virginia Tech, Blacksburg, VA* 2016

- Exploratory and predictive analysis for soccer outcomes based on past matches and player- and team-attributes.
- GitHub: **ayaankazerouni/soccer-predictions** – Data pre-processing and modeling – (Python, R)

Fall-Detection System for Walkers Used by the Elderly and People with Disabilities
University of West Georgia, Carrollton, GA 2015

- Developed an end-to-end alerting system to automatically notify caregivers of emergencies – Android, Arduino)
- **2nd place**, 2015 College of Math and Science Research Day

HONORS AND AWARDS

2nd Best Paper Award, Research Track 2019
ACM SIGCSE Technical Symposium

1st Place in the SIGCSE Student Research Competition 2018
ACM SIGCSE Technical Symposium

2nd Place in the College of Math and Science Research Day 2015
University of West Georgia

Outstanding Honors Junior 2014
University of West Georgia

Outstanding Honors Sophomore 2013
University of West Georgia

SKILLS

Programming Languages	Java, Python, JavaScript, Ruby, C#, C++
Web	React.js, Redux, Node.js, Ruby on Rails
Data	SQL, MongoDB, SciPy stack, R, Data analytics
Other	CLI scripting, VirtualBox, Vagrant, Android SDK