‍Austin Cory Bart

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http://github.com/acbart/

Summary

* PhD student at Virginia Tech studying **Computer Science** and **Learning Science**. Seeking a position as Research Professor, Research Engineer, Curriculum Developer, or Software Developer. Passionate about developing technology to support education by leveraging the latest learning theory and computational techniques. Equally comfortable as both Software Architect and Educational Researcher, having developed a significant amount of sophisticated software. Committed to supporting education and diversity in every discipline, especially Computer Science.

Education

Computer Science PhD, Learning Sciences Certification ~ Virginia Tech

September 2012 - Present (Expected Graduation: May 2017)

Coursework: 4.0 gpa

* CS Research Methods
* Tools for Online Education
* Sequential & Learning Decision Making
* Usability Engineering
* Computational Thinking
* Introduction to Learning Sciences
* Motivation & Cognition
* Digitally Mediated Learning

Honors Bachelor of Computer Science With Distinction ~ University of Delaware

September 2008 - May 2012

Coursework: 3.850 gpa

* Advanced Object Oriented Programming
* Database Systems
* Artificial Intelligence
* Educational Game Design
* Technology and Cognition
* Designing Online Information

Notable Skills, Abilities, and Achievements

* **Programming**: Fluent in many technologies, languages, and formats including, but not limited to:

Python ∙ Java ∙ Racket ∙ JavaScript ∙ PHP ∙ MySQL ∙ C/C++ ∙ *Other technologies learned on demand*

* **Research**: Publications at top-tier education and software engineering conferences
* **Writing**: Successful grant applications through the NSF and other entities
* **Teaching**: Highly regarded volunteer instructor for community programming events
* **Management**: Experience managing software development teams and student researchers

Notable Projects and Roles

creator of the CORGIS Datasets Project | http://think.cs.vt.edu/corgis

* A curated collection of Big Data sets for introductory programming
* Provides a contextualized experience to motivate students and increase comprehension
* Specially developed, innovative technology makes creating and working with real-time and massive datasets trivial even for beginner students

Co-founder of the Platipy project | http://platipy.org

* An organization committed to smooth XO laptop development, a laptop built for disadvantaged children in 3rd world countries and low socio-economic areas
* Most notable tool developed is Spyral, a sophisticated, Pythonic, Pygame-based framework for developing games quickly and efficiently
* Also publishes tutorials and articles on educational game development theory

ASSOCIATE INSTRUCTOR For Introduction to Computational Thinking | http://goo.gl/hWDX4j

* Worked closely with Dr. Dennis Kafura to design entire curriculum for a new general education course, leveraging cutting edge pedagogical techniques
* Built a fully-integrated course website with interactive coding and real-time collaboration, based on the Runestone platform
* Co-lecturing and grading students assignments

Primary Developer of Broadway and Wacky Writer | http://wiki.laptop.org/go/Broadway

* Creative writing education games created for the XO Laptop designed to motivate young students
* Honors Senior Thesis project with an accompanying research study and published dissertation
* All software freely available under open source

WebMaster of Association for women in computing | http://www.awc.org.vt.edu/

* Maintain and extend the official website for the Virginia Tech Association for Women in Computing
* Organize and lead events for members, including technical talks, social events, and topicals
* Assist and support officers as an experienced graduate student

Notable Awards

2014-Present: National Science foundation Graduate research program fellow

A $96,000 stipend given over three years to pursue the student’s own graduate-level research agenda. Given to less than 2,000 of the 13,000 submitted applications from PhDs in varying fields across the entire US, and considered one of the most prestigious scholarships offered through the NSF.

2013: 2nd Place in the graduate level student research competition at sigcse ‘13

Competed at the 2013 SIGCSE (Special Interest Group for Computer Science Education) Student Research Competition, winning second place at the graduate level. As a 1st year PhD student, presented undergraduate work from my bachelor thesis, competing against senior graduate students presenting their dissertation work.

2008-2012: University of Delaware Eugene Dupont Memorial Scholar

Awarded annually to a dozen applicants of the University of Delaware and provides four years of full tuition, housing, dining, books, and an additional research stipend. Recognizes not only academic excellence in high school, but strong extra-curricular involvement. Considered one of the most prestigious scholarships available at the University of Delaware.

**Learn more about me at http://www.acbart.com**