

BRETT COOLEY

WORK EXPERIENCE

DYNAMX CONSULTING

Research Assistant/Systems Administrator

Assist President and Primary Investigator with Department of Defense funded modeling and simulation research projects. Also administer a public facing website which includes a Drupal installation, and provide technical support and training on both software and hardware issues.

Current, from July 2011

WILLIAM & MARY COMPUTER SCIENCE

Research Assistant

Conduct independent research on computer security topics under Dr. Haining Wang, focusing on expanding personal research on Android security. Currently the only undergraduate in the Computer Science department with a research assistantship.

Current, from September 2011

WILLIAM & MARY COMPUTER SCIENCE

Lab Consultant

Assist entry level Computer Science students with class projects and homework, focusing on reinforcing basic programming concepts and best practices. Also advise all students on departmental lab procedures and Unix related questions.

Current, from January 2011

SKILLS & TOOLS

PYTHON

Extensive experience with python and the standard library. Used for developing FTP clients, parsers, systems monitoring utilities, and graph manipulations.

OTHER LANGUAGES

Experience in C, C++, Bash, Assembly (MIPS), and Java. Areas of focus include Android applications, system level networking, large dataset processing, and multi-threading.

TOOLS (In order of preference)

Text Editing	Sublime Text, nano, vim
Typesetting	L ^A T _E X
IDE	Sublime Text, Eclipse
Version Control	git, Subversion
Testing & Virtualization	VirtualBox

RESEARCH & PROJECTS

ANDROID ACTIVITY SPOOFING

Ongoing research project dealing with tricking users into leaking their credentials to third parties via spoofing trusted activities.

DRUPAL

Open-source Python scrip which automates updating Drupal installations. Currently under active development.

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github.com/brcooley
stackoverflow.com/users/950912

EDUCATION

*Current, from
August 2009*

College of William & Mary

Williamsburg, Virginia

Computer Science, Mathematics

Dean's List FALL 2009, SPRING 2010, 2011

Current GPA: 3.72

*August 2005
to May 2009*

High School Diploma

Douglas County High School

Castle Rock, Colorado

GPA: 4.1 (HIGHEST HONORS)

AWARDS & CONTESTS

FALL 2011

JANE WILLIAMS MAHONEY SCHOLARSHIP

Phi Beta Kappa, Alpha Chapter

Awarded for an excellent academic record and unmet financial need by Phi Beta Kappa.

SPRING 2011

MONROE SCHOLARSHIP

Roy R. Charles Center, William & Mary

Awarded for outstanding academic achievements.

Included a summer research grant for an independent research project.

FALL 2010

INTERNATIONAL COLLEGIATE PROGRAMMING CONTEST

Association of Computing Machinery

Placed 1st on site, 12th out of 175 teams regionally. Was the only sophomore member of three William & Mary teams.

SPRING 2010

MATHEMATICS CONTEST IN MODELING

Consortium for Mathematics and Its Applications

Created, organized, and lead first William & Mary team, which was recognized as a successful participant.

LANGUAGES

ENGLISH Native

CHINESE Conversational