

# BRETT COOLEY

## WORK EXPERIENCE

### DYNAMX CONSULTING

*Research Assistant/Systems Administrator*

*Current, from July 2011*

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.

### WILLIAM & MARY COMPUTER SCIENCE

*Research Assistant*

*Current, from September 2011*

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.

### WILLIAM & MARY COMPUTER SCIENCE

*Lab Consultant*

*Current, from January 2011*

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.

## 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 Java, C, Erlang, Assembly (MIPS), C++, and Bash. 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 <sup>A</sup> T <sub>E</sub> 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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✉ [brett@cooleyweb.org](mailto:brett@cooleyweb.org)  
🌐 [github.com/brcooley](https://github.com/brcooley)  
📄 [stackoverflow.com/users/950912](https://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: 3.7

*August 2005  
to May 2009*

High School Diploma

### Douglas County High School

*Castle Rock, Colorado*

GPA: 4.1 (HIGHEST HONORS)

## SCHOLARSHIPS

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 grand for an independent research project.

## CONTESTS & EXTRACURRICULARS

FALL 2011

### INTERNATIONAL COLLEGIATE PROGRAMMING CONTEST

*Association of Computing Machinery*

Placed 1<sup>st</sup> on site, 2<sup>nd</sup> out of 159 teams regionally. Will be one of ~20 teams representing North America at the International Finals in May 2012.

FALL 2010

### INTERNATIONAL COLLEGIATE PROGRAMMING CONTEST

*Association of Computing Machinery*

Placed 1<sup>st</sup> on site, 12<sup>th</sup> out of 157 teams regionally. Was the only sophomore member of three William & Mary teams.

## EXTRACURRICULAR ACTIVITIES

- **President**, W&M ACM Chapter
- **Undersecretary of Academic Policy**, W&M Student Assembly

## LANGUAGES

ENGLISH	Native
CHINESE	Conversational