# Brett Cooley

## Work Experience

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🌐 | github.com/brcooley
📄 | stackoverflow.com/users/950912

*Current*, from July 2011

### 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 September 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 January 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.

## 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 | LaTeX |
| 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.

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

## Education

| | |
|---|---|
| *Current*, from August 2009 | **College of William & Mary**<br>*Williamsburg, Virginia*<br>Computer Science, Mathematics<br>Dean's List Fall 2009, Spring 2010, 2011<br>Current Gpa: 3.72 |
| August 2005 to May 2009 | High School Diploma<br>**Douglas County High School**<br>*Castle Rock, Colorado*<br>Gpa: 4.1 (Highest Honors) |

## Awards & Contests

Fall 2011

### International Collegiate Programming Contest
*Association of Computing Machinery*

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

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.

Fall 2010

### International Collegiate Programming Contest
*Association of Computing Machinery*

Placed 1st on site, 12th out of 157 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 |