

William Brown

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5627 Lerner Hall
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Education

Columbia University

Bachelor of Science in Computer Science

New York, NY

2008 – 2012

- **GPA:** 3.69, completed 91 of 124 credits
- **Courses in Progress, Spring 2011:** Machine Learning, Visual Interfaces to Computers, Programming Languages and Translators, Scientific Computation
- **Honors:** Dean's List (every semester, 2008 – present)

Antwerp International School

IB Diploma, High School Diploma

Antwerp, Belgium

1999 – 2008

- **GPA:** 4.23, **IB Score:** 41, **SAT 2:** 2270
- **Honors:** Principal's Honor Roll; Math, Physics and Theater Graduation Awards; European Council of International Schools Award for International Understanding

Employment and Experience

Google, Inc.

Software Engineering Intern

New York, NY

May 2010 – August 2010

- Worked with the DoubleClick Reporting team on front end and back end software in Java
- Assisted in designing a new user interface for the DoubleClick Reporting module that included interactive graphs and reduced user interface latency by 50 to 90 percent, then implemented this interface and launched it to a set of beta users
- Used a range Google technologies, including the Google Web Toolkit, the Guice dependency injection framework, and the Google Charts API
- Achieved 100% unit test coverage on produced code

Google, Inc.

Software Engineering Intern

New York, NY

May 2011 – August 2011

Robocopter Project

Faculty-Advised Independent Project in Computer Science

New York, NY

May 2010 – May 2011

- Worked on a two-person team to design, build and program a quadricopter capable of stable flight, based on the Android platform
- Designed and printed the body of the helicopter using a Makerbot and parametric modelling software
- Created a Java application for communicating with the helicopter, capable of receiving streaming video, displaying in-depth sensor data, and sending flight commands
- Wrote a paper detailing the architecture of our system and the design of the hardware, which can be found at <https://github.com/haldean/droidcopter/raw/master/text/essay-121220.pdf>

University Events Management, Columbia University

Sound and Light Theater Technician

New York, NY

May 2009 – present

- Light and sound design for up to 6 events per week, working directly with clients to determine specifications, then implementing those specifications in a very constrained time frame

Love at CU

Web Developer

New York, NY

March 2009 – April 2009

Community Activities

Student and Off-Broadway Theater

New York, NY

Light, Set, Props, Makeup and Sound Design

August 2008 – present

- Lights, set, props, makeup and/or sound for 17 on-campus shows
- Special effects makeup for *Next Door* and stage crew for *The Boychick Affair*, both off-Broadway shows

Google Ambassador Program

New York, NY

Google Ambassador for Columbia University

January 2011 – present

- Responsible for planning Google-related campus gatherings, including tech talks and social events

Application Developer Initiative

New York, NY

Lecture: Introduction to Web Applications in Django

December 1, 2010

Gateway Lab

New York, NY

Project Leader

August 2008 – December 2008

- Managed a team of five engineering students working too design and build a green roof for the Old Broadway Synagogue in upper Manhattan

Columbia Spectator

New York, NY

Staff Photographer

August 2009 – December 2009

Skills

Languages: C, Java, Python, JavaScript, Perl, PHP, Common Lisp, Mathematica, Matlab, SQL, semantic and accessible HTML4 and HTML5, cross-browser CSS, UNIX Shell Scripting, \LaTeX

Software and Operating Systems: Photoshop, OpenSCAD, Maya, Illustrator, VectorWorks, Eclipse, Microsoft Office Suite, iWork, iLife, QEMU, Mac OSX, Ubuntu, Arch Linux

Interests: Artificial intelligence, user interfaces, functional languages, 3D printing and at-home fabrication, theater lighting and set design, wood- and metal-working