Jackie Kay

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EDUCATION

Swarthmore College   **GPA: 3.54 (Computer Science: 3.67)**

Expected Graduation: May 2014
Computer Science Major, Double Minor in Engineering and Mathematics

Relevant Coursework: Fundamentals of Digital Systems, Data Structures and Algorithms, Mobile Robotics, Computer Vision, Theory of Computation, Natural Language Processing, Computer Architecture, Humanoid Robotics, Computer Networks, Artificial Intelligence

Languages: Proficient in Java, C/C++, Python and Matlab; familiar with Javascript, Common Lisp, and Perl.

PROJECTS

Camtango

Singlehandedly released Camtango for Android, an event-based photosharing application. Handled asynchronous threading, image processing, user interface, server calls, and SQLite databases.

OpenSwype

Utilized computational geometry and natural language processing techniques to implement a continuous stroke input ("Swype") keyboard for Android phones.

WORK EXPERIENCE

Carnegie Mellon Robotics Institute – Summer Scholar   **Summer 2013**

Led a project on time-dependent, resource-constrained path planning for an autonomous planetary rover. Designed a C++ simulation modeling rover energy expenditure and thermal levels. Project expected to culminate in a research paper.

Swarthmore College Engineering Department – Robotics TA   **Fall 2012**

Instructed students in ROS, basic Linux usage, and robotics theory. Administered Git repositories for homework backup and submission.

Lead Android Developer – AgileZoom, LLC   **Summer 2012**

Responsible for development and publication of all Android products for AgileZoom, Camtango and ici.

HONORS AND AWARDS

RISS REU   **2013**

Competitive NSF research grant for undergraduates from the Carnegie Mellon Robotics Institute.

William Plumer Potter Fiction Award   **2013**

Swarthmore Department of English Literature's prize for best student short story.

Hurd Summer Research Fellowship   **2011**

Competitive fellowship for undergraduate research in the sciences and engineering.