Derek Jones

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Permanent Address
56 La Honda Court
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Education

- **Barrett, The Honors College at Arizona State University**—Tempe, AZ
  Bachelor of Science in Computer Science – May 2017
  - Ira A. Fulton Schools of Engineering
  - ASU Provost Scholarship - 8 Semesters

Qualifications

- Excellent problem solving skills
- Experience using Git and bug trackers in a production environment
- Strong written and verbal communication skills developed through team projects and presentations
- **Computer Languages and Environments:**
  - Proficient in C and C++
  - Experience with Java, OpenMP, MPI, Bash, Gnuplot, and LaTeX
  - Exposure to Python, Go, Javascript, SQL, and Matlab
- **Operating Systems:** Windows, UNIX/Linux (Arch, Redhat, Ubuntu)

Work Experience

- **Software Engineering Intern**—Lawrence Livermore National Laboratory, High Energy Density Physics
  May 2016 – August 2016
  - Implemented and analyzed various acceleration structures for use within LLNL's Monte Carlo Particle Transport Code, Mercury
- **Software Engineering Intern**—ViaSat Inc.
  May 2015 – August 2015
  - Designed, implemented and tested an Android collaboration application tailored for operation over satellite networks

Projects

- **Virtual Reality Visualization of Monte Carlo Particle Transport**—Honors Thesis, *C++ - 1 Person, WIP*
  - In a collaborative effort with the Lawrence Livermore National Laboratory, I am creating a virtual reality visualization of Mercury utilizing a HTC Vive
- **api-taco**—Pennapps XII, *Go - 2 People*
  - Developed a RESTful api running on the Microsoft Azure cloud which would query user specified elements on web pages and store a history of all changes to that element for the user to later retrieve
- **snackbot**—ViaSat Intern Hackathon, *Java/Python - 4 People*
  - Using a Raspberry Pi and an RC car, developed, with a team, a robotic car which would receive snack orders from an accompanying Android App. The car would then navigate to the user to deliver the snack

Competitions

- **SuperComputing 15 Conference**—Student Cluster Competition 2015, *Arizona Tri-University Team*
  - Collaborated with four other students to compile and run LINPACK, Trinity, WRF, MILC, HPC Repast and HPCG in a UNIX environment using the Slurm workload manager
  - Competed to compute the provided data sets in the fastest time over a three day period
- **ASU Programming Competition 2016**—1st Place Overall
  - Collaborated with two teammates to solve logic problems in C++