1284 Eagle Road, New Hope, PA 18938 densht@gmail.com, http://www.denniss.me

Education

Drexel University BS/MS in Computer Science GPA 3.60

Philadelphia, PA September 2013 - June 2018

Experience

Software Architect Philadelphia, PA

Lem.ma http://lem.ma/> March 2014 - present

- Creating an online education platform that improves upon existing systems by integrating all subjects into a graph of topics with lessons personalized by a user's performance.
- Using search and planning algorithms to personalize content and practice time per user.
- Applying symbolic computation for automatic grading and smart feedback.
- Managing front-end, back-end development, and server platforms.

Computer Vision Researcher Philadelphia, PA

Drexel University December 2014 - present

- Researching methods for multi-view stereo and material recognition.
- Experimenting with SVMs, MRFs, and ANN trees for spatial labeling and segmentation.
- Optimizing code for running on large clusters using parallel processing and CUDA.
- Collaborating with teams of students between universities to build large systems.

Teaching Assistant

Drexel University January 2014 - April 2015

Philadelphia, PA

- Helped students directly in debugging code and solving problems.
- Managed groups of TAs in completing grading on time and in creating assignments.
- Developed testing scripts for verifying code correctness and grading.

Projects

Hackathons

- Dragon Hacks 1st Place Gaze and Myo controlled quadcopter interface.
- Penn Apps Made a physical game of pong with a quadcopter as a ball and phones as paddles.
- Philly Codefest Made an Android Wear handshake app for exchanging contacts.

Personal/Open Source

- SymPy Created a parser for interprating LaTeX using custom grammars and heuristics.
- Transform.js Created an operational transform library for syncing objects.
- Y-Quadcopter Programmed PID stabilization for hybrid quadcopters geometries.
- FFTS Fixed bugs in an open source FFT library for NEON/SSE machines.
- Open Patcher Made a pentesting tool for ASM analysis and patching of Mach-O binaries.

Skills

Technologies: Android, Linux, Node.js, CUDA, ROS, Git, MongoDB, Ruby on Rails Libraries: OpenGL, OpenCV, PCL, NumPy, SymPy, jQuery, AngularJS

Languages: Bash, C/C++, CSS, Go, Haskell, HTML, Java, Javascript, Matlab, PHP, Python

Spoken Languages: English, Russian, Spanish