

SCOTT HARVEY

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EDUCATION

Stony Brook University, New York	<i>GPA: 3.67</i>
Pursuing M.S. Computer Science	<i>May 2016</i>
B.S. Computer Science, B.S. Applied Math & Statistics	<i>Dec. 2014</i>

SKILLS

Languages	C, python, JavaSE/EE, JavaScript, SQL, SML, MATLAB
Markup	XML, JSON, HTML, YAML
Tools	git, *nix, MySQL Workbench, Wireshark

PROJECTS

File Descriptor Daemon, *C Networking* *Dec. 2014*

- Designed daemon which allows under privileged processes to obtain raw and packet sockets.
- Useful when users may want raw sockets but admin does not want them to have root or NET_CAP_RAW.

On Demand Routing, *C Networking* *Nov. 2014*

- Programmed a shortest-hop routing protocol to replace IP in static networks of unknown connectivity.
- Used packet sockets to discover routes and deliver application payloads.
- Local ODR server performed the routing and multiplexed messages to apps using local sockets.

xTCP, *C Networking* *Oct. 2014*

- Implemented a reliable byte-stream transport protocol over UDP, based off TCP Reno.
- TCP features such as smoothed-RTT based retransmission timeout and fast retransmission.

TravelociRaptor, *Java Webapp* *Spring 2014*

- Created a flight reservation and reverse auction webapp using JSP, finishing as the top 3 of 20 teams.
- Designed the MySQL database to support: customers, employees, and managers.

Nachos, *Java OS* *Fall 2013*

- Worked on modules of a simulated OS in Java which ran MIPS executables.
- Extended the kernel to support mmap/munmap along with a write-back cache for disk accesses.

Spriter, *Java Application* *Fall 2012*

- Created a 2D drawing editor using Swing to create sequences of poses for animating game sprites.
- Completed from an unfinished and broken starting state of 25+ classes.

EXPERIENCE

Stony Brook University, File Systems & Storage Lab	Stony Brook, NY
<i>Research Assistant under Prof. Scott Smolka</i>	<i>July 2014 - Dec 2014</i>

- Research on hierarchical run-time assurance frameworks using MATLAB/Simulink and python