

SCOTT HARVEY

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EDUCATION

Stony Brook University, New York

Pursuing M.S. Computer Science

B.S. Computer Science, B.S. Applied Math & Statistics

GPA: 3.67

Jan. 2015 - May 2016

Sept. 2011 - Dec. 2014

SKILLS

Languages C, python, JavaSE/EE, JavaScript, SQL, SML, MATLAB

Markup XML, JSON, HTML, YAML

Tools git, *nix, MySQL Workbench, Wireshark

PROJECTS

fdd, C Networking

Dec. 2014

- A daemon which allows under privileged processes to obtain raw and packet sockets.
- Also supports other dangerous tasks such as opening and sending arbitrary files.

ODR, C Networking

Nov. 2014

- Programmed a routing (and IP) level protocol for 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 in the top 3 of 20 teams.
- Designed the MySQL database to supporting users: 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

Research Assistant under Prof. Scott Smolka

Stony Brook, NY

July 2014 - Dec 2014

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