DAVID SOLODUKHIN

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EDUCATION

Georgia Institute of Technology - Atlanta, GA   **Graduating May 2019**
Candidate for B.S. in Computer Science
GPA: 3.96/4.0
Concentrations: System Architecture; Information Security

EXPERIENCE

Advise Technologies – New York City, NY   **June 2016 – August 2016**
Software Engineer Intern, CI and QA Team
- ❖ Designed and maintained a continuous integration system for the development team that automatically pulled code from repos, compiled the software, ran regression and unit tests and then emailed results to team leads.
- ❖ Designed **Java** plugins for TeamCity CI server which added additional automation functionality such as email alerts and detailed logging.
- ❖ Scripted specialized regression tests in Jscript using the TestComplete testing suite.

RESEARCH

Institute for Information Security & Privacy @ Georgia Tech   **October 2017 – February 2019**
Undergraduate Researcher
- ❖ Designed and evaluated new anti-fuzzing techniques to slow down modern fuzzers and protect software from malicious fuzzing.
- ❖ Wrote LLVM passes in **C++** to implement anti-fuzzing techniques in existing Linux executables.
- ❖ Wrote custom **Python** scripts to automate testing and plot fuzzing statistics.
- ❖ Revised and edited final paper which was submitted to USENIX and Black Hat.

PROJECTS

- ❖ HgDocs – Collaborative document editor written in JavaScript using Node.js middleware. Supports up to 10 people seamlessly editing a document simultaneously. Uses a MySQL server db for document state storage.

- ❖ Foxmembeta.cf – Math help website written in javascript and HTML which utilized WolframAlpha.com's API to give users access to tools to solve equations step-by-step. Website received 100k hits in 2 days and was in numerous online publications.

- ❖ Olive Engine – Networked Multiplayer Game written in JAVA using AWT and Java web sockets. Designed a protocol to add functionality to TCP, which allowed application error correction and latency synchronization.

SKILLS

Languages: Java, C, C++, Javascript, Python
Testing Suites: Selenium, TeamCity, TestComplete, AFL, hongfuzz, Wireshark, Burp Suite
Database: MySQL, Firebase
Technologies: Node.js Socket.io, JQuery, Android SDK, LWJGL, LLVM
Network & Computer Architecture/Organization, Exploit Development, Reverse Engineering
x86/64 ISA
Russian: Native Fluency

LEADERSHIP

Phi Kappa Theta, Gamma Tau Chapter – I.T. Chair
Yellow Jacket Competitive Fencing Team
Grey Hat Security, Linux Users Group