

Michael Stone

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Education

“Sesame Street”, “Reading Rainbow”, “3-2-1 Contact!”, “Mr. Rogers’ Neighborhood”: many years.

BA with High Honors, Math & Stats + English, Swarthmore College, 4 years.

Security and Release Management, OLPC, 18 months.

Security, Safety, Incident Management, Management, and Leadership, Akamai Technologies, 5 years.

Selected Learnings

Mathematics taught me rigor. CS taught me to debug. Art taught me to see, to read, and to analyze.

Security taught me to reflect. Safety taught me to plan and to work together. Finally, management and leadership are teaching me some useful ways to achieve, often working together with available people.

Selected Skills & Conversation Topics

legend :current, :rusty, :nascent/lapsed

langs :C, :Golang, :C++, :Python, :Scheme, :Haskell, :Java, :PHP, :VHDL, :bash, :T_EX
web tech :XML, :HTML, :CSS, :SQL, :JS, :RDF :DNS, :HTTP, :TLS, :SMTP, :POP3, :XMPP
tools :git, :p4, :Make, :autotools, :klee, :s2e, :LLVM IR, :CPSA, :Coq, :Alloy, :DIVINE
network :IEEE 802, :802.11b/g, :IPv4, :IPv6, :TCP, :UDP
safety :STPA, :CAST, :intent specifications, :asking good questions, :finding answers
math :algebra, :real analysis, :topology, :probability, :statistics, :queueing theory, :control theory
topics :reading, :games, :cooking, :travel, :law, :causality, :planning, :empiricism, :cognition, :conflict

Recent Employment

Senior Architect, Information Security, *Akamai Technologies* 2013-2014

Today, I manage Akamai’s “Safety Team”, which oversees and administers Akamai’s company-wide technical incident management process. Together with three reports, one peer, and several senior colleagues, I review tens of incidents per year, train hundreds of incident responders, answer senior management’s incident-related questions, and personally help support, coordinate, & direct response efforts for internet-wide security crises as needed. To date, multiple of my lifetime staff have been or are up for promotion.

Architect, Information Security, *Akamai Technologies* 2011-2012

While continuing to provide product security architecture Advice & Review, I joined Akamai’s 24x7x365 incident management on-call rotation, the members of which are expected to be able to manage **any** emerging technical problem until other help arrives. Earlier, I also prototyped several information retrieval systems for distributed log search, suspicious JavaScript detection, and code search running in Python, C++, and Haskell, in some cases on thousands of machines and petabytes of data, and became a people-manager, thereby hiring and developing several security researchers.

Senior Researcher, Information Security, *Akamai Technologies* mid 2009-2010

As a new hire, I polished and turned the crank on Akamai’s security architecture “Advice & Review” technical oversight process, gained early experience communicating results to senior management, built tools, advised incident managers as a subject-matter expert in information security, and, by happy accident, discovered and introduced Dr. Nancy Leveson’s STAMP model of accident causation and system safety to Akamai.

Release Manager, *One Laptop per Child* March 2008-Jan 2009

In 34 weeks, I defined a new release process and, in concert with representatives from ProdM, QA, Eng, and Biz, guided a distributed team of employees, contractors, and community members which integrated changes that closed approximately 1,000 tickets, including a complete UI redesign. The release shipped within 6 weeks of the target month, with only two serious regressions, to positive reviews on Amazon and in the OLPC software community at large.

Software Developer, *One Laptop per Child* June 2007-March 2008

I delivered portions of OLPC’s “Bitfrost” security system including its activity isolation framework, parts of its software theft deterrence system, and its secure update system. This work addressed the technical problem of safeguarding the education of hundreds of thousands of children and the commercial problem of convincing several governments to purchase Linux-based educational laptops from an untested startup.