Karl Cronburg



| Contact Information | Computer Science Department Tufts University 161 College Avenue Medford, MA 02155 | 857.206.1330 karl@cs.tufts.edu Tufts: https://www.eecs.tufts.edu/ karl/ Github: cronburg Citizenship: United States |
|------------------------|---|---|
| Degrees | 2015 M.S. in Computer Science, Tufts University 2013 B.S. in Physics & Computer Science, Bucknell University | |
| Research Interests | Debugging, systems verification, memory management | |
| LANGUAGES | Python: Primarily used for scripting in recent years (grad school). Used for astronomical data analysis in undergrad (numpy, scipy, matplotlib, pylab, etc.). | |
| | C: Used heavily in research and coursework. | |
| | Haskell: Used heavily in research and coursework. | |
| | Java: Used moderately in research and coursework; more knowledgeable about the language itself and JVM implementations than its applications. | |
| | ${\rm L}\ensuremath{\mathbb{A}}\ensuremath{\mathrm{T}}_{\ensuremath{\mathbb{E}}}\ensuremath{\mathrm{X}}$: Conference papers, presentations, classwork. | |
| | Limited exposure to: Bash, Ruby, C++, ML, Smalltalk, Lisp, $\mu {\rm scheme},$ Visual Basic, HTML, CSS, MySQL, PHP, Javascript. | |
| Projects | Master's Thesis 2015: Debugging Memory Managers with Fine-Grained Memory Permissions | |
| | Tufts Polyhack 2014: Shadow Memory | |
| | Automatic Printf-Debugging in C | |
| | Using Probabilistic Programming Languages to Model Game Heuristics | |
| | DeckBuild: A Declarative Domain-Specific Language for Card Game Design | |
| | Visual Geolocation Based Black and White Listing | |
| | Dotfiles & Scripts | |
| Teaching Experience | Teaching assistant (Tufts): Operating Systems, Networks, Internet-Scale Distributed Systems Lab teaching assistant (Bucknell): Computer Architecture, Programming Languages, Intro to CS, Intro to Physics I & II Grader (Bucknell): Quantum Mechanics, Electronics, Intro to Physics I & II | |
| Operating Systems | Sept. 2015 - Present: Arch Linux (x86-64 machines, raspberry pi, pogo plug) Fall 2010 - Oct. 2015: Ubuntu / Debian (x86 machines, raspberry pi) 2005 - 2012: Windows | |

References

Samuel Z. Guyer Computer Science Dept. Tufts University sguyer@cs.tufts.edu Relation: Advisor (2013 - Present)

Noah Mendelsohn Computer Science Dept. Tufts University noah@cs.tufts.edu Professor while TAing (2013 - 2014) Alva Couch Computer Science Dept. Tufts University couch@cs.tufts.edu Professor while TAing (2013 - 2014)