Tanner Hoelzel

EDUCATION

Binghamton University, State University of New York   December 2019
>   Bachelor of Science in Computer Science, Watson School of Engineering
>   Bachelor of Arts in Mathematical Sciences, Harpur College of Arts and Sciences
>   GPA: 3.21/4.00

TECHNICAL SKILLS

Emacs, Git, Nix, Haskell, Emacs Lisp, C, C++, Scheme, Portage, Org-mode

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SOFTWARE EXPERIENCE

kmonad, http://github.com/kmonad/kmonad   May 2020 - Present
Contributor
  • Help new users get started by interacting on GitHub Issues
  • Single-handedly ported project to OSX and designed the project logo

Siege Technologies, Rome NY   May 2018 - Aug 2018
Kernel Team
  • Developed tool for complete reverse engineering of linux kernel security feature
  • Adapted state-of-the-art hardware attacks to new SoCs based on new proofs-of-concept

Computer Graphics Group, Technical University of Cologne   May 2017 - Aug 2017
Researcher
  • Implemented Kalman filter in C# to smooth motion capture data for real-time animation
  • Designed various position- and orientation-estimation models in Unity 3D
  • Optimized algorithm performance in real-time VR environment

Signal Analysis Laboratory, Binghamton University   Sep 2015 - Feb 2017
Researcher
  • Published state-of-the-art sign language recognition results at ICIP 2017
  • Optimized an open-source C++ random regression forest for gesture classification

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OTHER EXPERIENCE

Zen Mountain Monastery, Mt. Tremper NY   Jan 2020 - Apr 2020
Resident and Student
  • Assisted head cooks in a busy kitchen serving up to 100 residents and guests per day
  • Welcomed visitors and retreatants with tours of monastery buildings and grounds

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INTERESTS

  • Cross-country skiing, hiking, and road bicycling: especially multi-day, long-distance trips