Kaan Genç

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SeriousBug
January 4, 1995

Education

Ph.D. **The Ohio State University**, *Computer Science & Engineering*, August 2017 – present.

B.Sc. **İzmir University of Economics**, *Software Engineering*, September 2013 – June 2017.

Work

Research **In Michael D. Bond's research group**, January 2018 – present.

Teaching **Advanced C Programming**, *the Ohio State University*, Autumn 2017, Spring 2018.

Internship **ZetaOps Inc.**, June – September 2016.

Activity

Artifact Evaluation Committee member, OOPSLA 2020, September 2020.

Publications

PLDI 2020 **Crafty: Efficient, HTM-Compatible Persistent Transactions**, *Kaan Genç, Michael D. Bond, and Guoqing Harry Xu*, ACM SIGPLAN Conference on Programming Language Design and Implementation, Online, June 2020.
Extended Paper Paper Talk

OOPSLA 2019 **Dependence Aware, Predictive Unbounded Predictive Race Detection**, *Kaan Genç, Jake Roemer, Yufan Xu, and Michael D. Bond*, ACM SIGPLAN International Conference on Object-Oriented Programming, Systems, Languages, and Applications, Athens, Greece, October 2019.
Extended Paper Paper Talk

PLDI 2020 **SmartTrack: Efficient Predictive Race Detection**, *Jake Roemer, Kaan Genç, and Michael D. Bond*, ACM SIGPLAN Conference on Programming Language Design and Implementation, Online, June 2020.
Extended Paper Paper

PLDI 2018 **High-Coverage, Unbounded Sound Predictive Race Detection**, *Jake Roemer, Kaan Genç, and Michael D. Bond*, ACM SIGPLAN Conference on Programming Language Design and Implementation, Philadelphia, PA, USA, June 2018.
Extended Paper Paper

Open Source Contributions

ZEngine BPMN workflow based framework with Tornado, Rabbit AMQP, advanced permissions, extensible scaffolding features and more. I designed and implemented the internationalization module, and refactored the permission system.

Ulakbüs An integrated university system. I added course and exam timetabling support by using the CPSolver constraint solver library, and added internationalization support.

Pyoko ORM for Riak. I made several bugfixes, and added the functionality to split data dumps per model.

Firejail A sandbox program that reduces the risk of security breaches by restricting the running environment of untrusted applications using a rule list. I extended the rule list functionality to allow an arbitrary number of rules to be skipped in the configuration.

gist A command line interface for working with github gists. I made changes for compliance with XDG Base Directory Specification, and added completions for zsh shell.

Personal Projects

turing interpreter A simple Turing Machine simulator, and an esolang.

The Land Itself A small card-based video game.