

# MURAD AKHUNDOV

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## EDUCATION

### University of Toronto

Honours Bachelor of Science with High Distinction  
Computer Science, 3.76 CGPA

Toronto, Canada

September 2017 - May 2021

## EMPLOYMENT

### Okta

Software Engineer

- Telephony Team.

Toronto, Canada

May 2021 - Present

### Okta

Software Engineer (Internship)

- Developed enhancements to Okta's SMS and Call authentication factors.

Toronto, Canada

May - August 2020

### Connected.io

Software Engineer (Internship)

- Developed an Augmented Reality prototyping/user testing tool with a web control panel (React) and an audio AR Android end-user app (Kotlin).
- Developed a build and deployment pipeline using AWS (EC2 and S3) and Go.

Toronto, Canada

May - August 2019

### Manulife

Software Engineer (Internship)

- Developed a source-to-source compiler for query languages, which enabled a smooth transition from a legacy logging and alerting system.
- Developed and deployed monitoring microservices using Java and Spring boot.

Toronto, Canada

May - August 2018

### University of Toronto

Teaching Assistant

- Data Structures and Analysis (*CSC263*) Winter 2021
- Principles of Programming Languages (*CSC324*) Fall 2020
- Mathematical Expression and Reasoning for Computer Science (*CSC165*) Winter 2020

Toronto, Canada

January 2020 - April 2021

## PUBLICATIONS & ACADEMIC RESEARCH

### Verification By Gambling on Program Slices

Conference Paper

*International Symposium on Automated Technology for Verification and Analysis (ATVA '21)*

Murad Akhundov, Federico Mora, Nick Feng, Vincent Hui, and Marsha Chechik

### Annotative Software Product Line Analysis Using Variability-Aware Datalog

Journal Paper

*IEEE Transactions on Software Engineering (TSE)*

Ramy Shahin, Murad Akhundov, and Marsha Chechik

### Expediting Verification of Assertions in Loops by Isolation

Student Competition (1st Place)

*ACM SIGPLAN-SIGACT Symposium on Principles of Programming Languages (POPL '20)*

Murad Akhundov (Advised by Marsha Chechik and Mentored by Federico Mora)

## TECHNICAL SKILLS

- **General:** Backend Web, Program Analysis and Compilers, Full Stack Web, Microservices, Distributed Systems, Operating Systems
- **Languages:** Java, OCaml, Javascript, Python, Go, C, Kotlin, SQL, Typescript, Haskell
- **Development Software:** Docker, Bash, Linux, IntelliJ, Splunk, Sumologic, ELK Stack, Maven
- **Backend and DB:** Spring (Java), Express + Node.js (Javascript), Mux (Go), MongoDB, MySQL, Redis
- **Frontend:** React.js, Bootstrap, JQuery, Material UI, Android (Kotlin/Java), ReactiveX (RxJs, RxJava)
- **Platform:** AWS EC2, AWS S3, Pivotal CF, Heroku