MURAD AKHUNDOV

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EDUCATION

- HBSc, Computer Science. University of Toronto. 2017-2021 (expected). GPA: 3.70/4.0

EMPLOYMENT

Okta **Toronto, Canada**
Software Engineer (Internship) *May to August 2020*
- Designed and developed improvements to Okta's SMS and Call authentication factors, enabling clients to track delivery of messages.
- Worked with Java, Spring boot, MySQL, Redis

Connected.io **Toronto, Canada**
Software Engineer (Internship) *May to August 2019*
- Developed an audio Augmented Reality prototyping tool. Involved an Android user app and a Web control panel.
- Architected and developed a build and deployment pipeline using AWS (EC2 and S3) and Go.

Manulife **Toronto, Canada**
Software Engineer (Internship) *May to August 2018*
- Developed a source-to-source compiler for query languages, which enabled a smooth transition from a legacy system.
- Developed various monitoring microservices using Java and Spring boot.

ACADEMIC RESEARCH PROJECTS

Quick Isolating Checker for C **University of Toronto**
Advised by Prof. Marsha Chechik, Mentored by Federico Mora
- Speeds up verification of C programs by finding segments around assertions that can by proved in isolation. Developed in OCaml
- Won first place at ACM POPL'20 Undergraduate Student Research Competition.

Verification of C Product Lines with Datalog **University of Toronto**
Advised by Prof. Marsha Chechik, Mentored by Ramy Shahin
- Verification of C product lines, by means of extracting datalog facts with variability. Developed in OCaml.

OTHER PROJECTS

Course Info - Browser Extension for University of Toronto courses **Around 800 weekly users**
Improves course selection and browsing experience by adding dynamic content to websites.
- Extension developed using Javascript and JQuery, backend caching service with Go and Redis.

T Map App **2000+ Downloads**
Remake of University of Toronto Android Map App.
- Implemented in Java using Google Maps Anroid API.

Gitbox
Web application that provides detailed stats per contributor for a git repo hosted anywhere.
- Backend implemented using Node and Express, Frontend using React and Material UI.
- Uses custom parsers for git logs implemented from scratch.

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 platform, Splunk, Sumologic, ELK Stack, Maven
- **Backend and DB:** Spring (Java), Express + Node.js (Javascript), Mux (Go), MongoDB, MySQL
- **Frontend:** React.js, Bootstrap, JQuery, Material UI, Android (Kotlin/Java), ReactiveX (RxJs, RxJava)
- **Platform:** AWS EC2, AWS S3, Pivotal CF, Heroku

MISCELLANEOUS

- **Teaching Assistant** University of Toronto
  - *Mathematical Expression and Reasoning for Computer Science (CSC165)* Winter 2020
- **Hackathons**
  - *RU Hacks 2019* Winner of best use of Google Cloud Platform
  - *UofT Hacks 2019*