

Timur Borkhodoev

COMPUTER VISION ENGINEER · FULL-STACK DEVELOPER

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"If you optimize everything, you will always be unhappy."



Summary

I'm a Software Developer based in Toronto. My main areas of interests are **Web Development**, **Computer Vision**, **Machine Learning** and **Operating Systems**. Programming is my passion and whenever I can, I participate in hackathons & other case competitions. Everyday I strive to write highly readable, scalable and testable code. I mostly follow established industry patterns, but also able to compromise. I am not afraid to speak up and provide feedback at the right moment, both positive and negative. My hobbies are very important to me: I enjoy cooking, hitting the gym, and reading (non-fiction, sci-fi and fantasy)

Work Experience

TopHat

Toronto, Ontario

FULL-STACK DEVELOPER

Apr. 2018 - Present

- Implemented contract testing infrastructure for the front-end monolith and newer microservices using Pact (Python, Javascript)
- Managed and monitored health metrics and product analytics using Amplitude and in-house pipeline solution
- Worked in an agile, devops culture that involved daily standups, sprint planning, backlog grooming and google venture design sprints, as well as OKR methodology
- Shared some leadership tasks with the team lead such as managing backlog, organizing agenda for sprint planning
- Worked on several projects that dealt with time synchronization between clients, perceived reliability, education gamification and performance profiling. Mainly used React, Python (Django, serverless)
- Used Fullstory, Elastic stack and Datadog to investigate the root causes of server usage spikes and other critical platform issues
- Conducted technical interviews, evaluated candidates on their technical, implementational and algorithmic abilities
- Presented talks on various redux middlewares, testing patterns and post-mortems

STI

Toronto, Canada

VISUAL C++ MENTOR AND CONSULTANT

Sep. 2017 - Jan. 2018

- Mentored a developer in Visual C++ and openCV, developed an application that tracks positions of a prototype robot vacuum

Magna

Toronto, Canada

INTERN COMPUTER VISION ENGINEER

May 2015 - Aug. 2016

- 👤 Worked with a senior platform developer to improve aging development environment, tooling and infrastructure
- Translated Kalman filter algorithms from C++ to embedded C
- Gathered requirements from testing team and automated most time-consuming steps
- Developed and supported existing multi-threaded signal processing application prototype used for development and demos
- Worked on splitting some features into separate projects for scalability

Freelance

Philadelphia, USA

FULL-STACK

May 2014 - Aug. 2014

- Worked remotely with plastic surgeon M.D. Adrian Lo on a personalized presentation tool for surgical procedures
- Designed a simple Angular JS web application
- Converted existing image set to a S3 bucket (ImageMagick+python), with simple NoSQL database
- Automated deployment by creating EC2 image with bootstrap scripts

Honors & Awards

- 2018 🏆 **1st Place and health category nominee**, Platterz Food Hackathon
- 2017 🏆 **1st place**, McKinsey Open Data Challenge
- 2017 🏆 **1st place**, University of Toronto, Innovation Lab Data Challenge
- 2010 🏆 **1st place**, Municipal Olympiad in Informatics

Toronto, Canada

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Toronto, Canada

Ulan-Ude Russia

Mentoring

- 2018 **Mentor**, Hack the 6ix. Provided technical feedback and helped students choose the right tools for the project
- 2018 **Mentor**, University of Toronto, Innovation Lab Data Challenge. Ran a workshop on Python jupyter notebooks for scientific computing

Toronto, Canada

Toronto, Canada

University of Toronto

Toronto, Canada

HONOURS B.S. IN COMPUTER SCIENCE

April 2018

- Focus in Computer Systems
- Operating Systems(intro and advanced), Machine Learning, Statistics, Calculus(single and multi), Web Development, Functional Programming, Relational DBs, CS ethics, Ukrainian Literature(women in lit and fiction), Intro and Social Psych