

# Luca Bruni

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## EDUCATION

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### University of Waterloo

Waterloo, ON

*Bachelor of Computer Science – Computer Science, Honours, Co-operative Program*

*Sep. 2018 – Apr. 2023*

**Courses:** Operating Systems (4.0 GPA), Database Management (3.9), Compiler Construction (3.7)

## EXPERIENCE

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### Software Engineer

June 2023 – Present

*Huawei Technologies Canada Co. Ltd*

*Toronto, ON*

- Developed an intelligent query routing system to promote load balancing and reduce remote page reads
- Maintained PostgreSQL-based server side of GaussDB and client side JDBC hookup
- Administrated several Jenkins pipelines to monitor workload performance in distributed database clusters
- Configured numerous server environments to run proof-of-concept code and record individualized performance data

### Software Engineer Intern

May 2022 – Dec. 2022

*Huawei Technologies Canada Co. Ltd*

*Toronto, ON*

- Developed various internal tools and scripts, increasing Performance Team's productivity
- Tuned powerful machines and GaussDB distributed instances to maximize OLTP benchmark results
- Analyzed performance bottlenecks with Linux system and network monitoring software

### Full Stack Developer

Aug. 2021 – Dec. 2021

*KinMe Technologies Inc.*

*Toronto, ON*

- Implemented user-friendly vetting document upload and management portal
- Lead various software infrastructure improvement initiatives (mass refactoring, webhost tuning, accessibility)
- Leveraged Twilio and Stripe API to enhance user experience

### Junior Software Developer

Sep. 2020 – Dec. 2020

*Tuq*

*Waterloo, ON*

- Designed and built entire dental product admin portal to manage company sales data across multiple sources
- Developed custom features on EHR web application at the request of healthcare practitioner clients
- Improved patient surveying software to increase flexibility in questionnaire possibilities

### Operations Analyst

Apr. 2019 – Aug. 2020

*Compugen*

*Richmond Hill, ON*

- Diagnosed and addressed diverse technological problems of various company clients
- Managed company IT risks while applying the highest standard of customer service
- Experience with system administration, network infrastructure, hardware management, software, backup jobs

## PROJECTS

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### Bricks | C#, Swift, XCode, Unity, iOS, Mobile Development

- Unique iOS spin on popular “brick-breaker” applications, with advanced physics
- Co-developed game loop, physics, main menu, paddle shop, etc. using SDLC practices
- Built simple graphical user interfaces and infrastructure for micro-transactions
- Designed sprites and created pixel art by hand
- Achieved **1,600+** downloads, **100,000+** impressions

### Mr. Clean (WIP) | Javascript, Discord API, Redis, Elasticsearch, NodeJS, ExpressJS

- Discord Bot that performs various tasks such as remove spam, play music, and process user commands
- Utilized Redis cache and Elasticsearch indexing to speed up bulk message actions

## TECHNICAL SKILLS

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**Languages:** C/C++, Java, C#, Javascript, Typescript, HTML/CSS, SQL, Ruby, Python, Bash, Scheme, Assembly

**Frameworks:** Angular, React, Redux, NodeJS, Ruby on Rails, JUnit, Material-UI

**Developer Tools:** Git, GDB (+ other GNU software), VS Code, Vim, IntelliJ, Figma, Unity, Jenkins

**Other:** Linux, AWS (and Cloud products), RESTful API, Heroku, GraphQL, PostgreSQL, LaTeX, R, Groovy