Isaac Wismer

Software Developer • Adventurer • Ice Cream Enthusiast

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💼 Experience

Senior Software Engineer
Remote 📍

Block Inc. — CashApp
Nov 2021 - Present 📅

- *Payment State Machine Service*:
  - Added features on a payments service handling over **$2B USD/day of transactions**
  - Completed ongoing maintenance of the service, including achieving **99.999% uptime**
  - **Documented and shared** service knowledge and internals with other engineers
  - Planned, prioritized and estimate road maps of new features and maintenance work
  - Overhauled observability and tune alerts to decrease oncall load, prevent and mitigate SEVs
- **Onboarded and mentored** new engineers, assigning progressively more complex tasks as they got up to speed
- Part of an **oncall rotation**, addressing ongoing incidents and issues, answering engineering questions
- Implemented a greenfield microservice from design to maturity and maintenance
- Lead and documented a **GraphQL** transition to simplify customer service integrations

Software Developer Co-op
Bern, Switzerland & Remote 📍

CAScination
January 2020 - May 2021 📅

- *OTOPLAN*: Cochlear Implantation Planning Software
  - Added robust functionality in **C++** and Qt including **unit and integration tests**
  - Worked efficiently with a small team in an **agile environment** in person and **remotely**
  - Wrote high quality code for production medical software and performed **code reviews**
  - Actively participated in a stringent ISO 62304 medical device software release
- *Continuous Integration Pipeline*: Rewrote the Jenkins pipeline
  - Redesigned and implemented Jenkins CI pipeline to enable increased scalability and **reduced build times** by 50%
  - Simplified the application release pipeline, greatly automating it and **reducing developer time** required for release

GIS & Software Co-op
Vancouver, BC 📍

Minerva Intelligence
May 2019 - Aug 2019 📅

- *Sea to Sky Geohazards*: Near real-time landslide hazard system
  - Directly integrated runout modelling into a web app using **Docker** containers and a **PostGIS** SQL database
  - Completed extensive research and testing to determine model parameters
- *DRIVER*: 3D Material Volume Interpolator
  - Designed and implemented a scalable and **cloud deployable** Python application
  - Refactored a monolithic codebase into libraries and interfaces for increased modularity
  - Used **test-driven development** and wrote comprehensive **unit tests** to ensure code reliability

Programming & GIS Co-op
Ottawa, ON & Remote 📍

Geological Survey of Canada
May 2018 - April 2019 📅

- *Canada-3D Web Map*: Web map and searchable database containing all Arctic bedrock geological knowledge
  - Developed a high performance **Node.JS** web service with accompanying **PostGIS** geospatial database
  - Communicated with stakeholders to determine requirements and issues
  - Deployed and maintained secure **Linux** testing and production servers

🎓 Education

Bachelor of Computer Science: Honours, Co-op, Minor in GIS & Environmental Analysis
University of Guelph 📍

Graduated with Distinction, 2021 Society of Excellence Inductee, 2018 Co-op Student of the Year Nominee
Sept 2016 - Apr 2021 📅

🤝 Volunteering & Achievements

Scout Leader: *2016 - Present*
Led weekly meetings and monthly camps for youth 11-17, taught outdoors skills while leading weekend + week long trips

U of Guelph Outdoors Club President: *2018 - 2020*
Planned and executed day and overnight trips for members during the semester, ran the day-to-day business of the club

Bruce Trail Thru-Hike: *June 2021*
Hiked the 930km trail in 31 days, averaging 30km/day

Adirondack 46er: *Summer 2018*
Climbed all 46 4000' mountains in the Adirondacks in 5 weekends

⌨ Skills

Languages:	Tools/DevOps:	Databases:	Server:
Kotlin Java Rust C++ Python C JavaScript	Docker Git Linux GitLab CI Buildkite Jenkins Gradle	DynamoDb Postgres MySQL MongoDB PostGIS	Nginx Shell SQS GraphQL gRPC Microservices Kafka