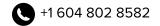
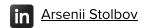
Arsenii Stolbov









EDUCATION

University of British Columbia | Vancouver, BC | Sep 2021 - Present

Bachelor of Science - Computer Science & Chemistry (Combined Major in Science)

- Coursework: Data Structures & Algorithms, Machine Learning, Relational Databases, Computer Networking, Computational Chemistry.
- Honors: International Major Entrance Scholarship (IMES) at UBC
- Activities: Professional Ice Hockey Player (2007 2021)

Certificate in Project Management | Google (Coursera) | Aug 2025

WORK EXPERIENCE

Al Software Developer | Buffoli Industries (Brescia, Italy) | Summer Internship | May 2025 - Aug 2025

- Built a 3-stage RAG + Angular UI; cut time-to-first-answer at p95 by ~30%.
- Switched to docs-first retrieval; reduced web calls by roughly half and drove a double-digit gain in internal-doc hit rate.
- Optimized CSV/MSG ingestion; throughput up 2–3× and peak RAM down by about one-third to one-half on large files.
- Implemented end-to-end RBAC (admin/read/write/none); unauthorized visibility incidents eliminated.
- Added a GraphRAG route; improved multi-document answer success on internal evaluations.
- · Modularized the pipeline and added context guards; over-length crashes eliminated and release friction reduced.

Software Engineer | Gidrolock - Smart Water-Leak Protection (Moscow, Russia) | Internship | Jan 2023 - Jan 2024

- Programmed firmware for Winner Radio and Premium/Standard Wi-Fi controllers using C/C++ in PICmicro IDE, implementing RS485 support for robust serial communication between sensors and control units.
- Developed low-power embedded logic for ZigBee and LoRa radio sensors, reducing battery consumption by over 25% through sleep-mode scheduling and interrupt-based wake cycles.
- scheduling and interrupt-based wake cycles.
 Engineered real-time leak detection logic with multi-valve response coordination, improving actuation reliability in dual-valve systems and reducing
- failure rates by 40%.
 Built a delay-tolerant retransmission algorithm to ensure alarm signals persist for 30 seconds, addressing synchronization issues in asynchronous wireless environments.
- Created **custom embedded communication protocols** for decentralized sensor networks, enabling secure and efficient coordination between heterogeneous IoT devices in smart home ecosystems.

Business Development Manager | Delumo - StartUp (Salzburg, Austria) | Summer Internship | Apr 2024 - Jul 2024

- Launched the English/German website; traffic up ~65%; ~18 inbound leads/month after launch.
- Held 20+ conversations with insurance partners in Europe and China; received 2 partnership interest letters and built ~C\$55K in likely deals.
- Organized 3 conferences with bronze-level sponsorships; collected 32 qualified leads at ~C\$28 per potential customer.
- Built a simple sales pipeline in the CRM; kept deal notes clean and up to date; cut time from first email to first meeting by ~5 days.
- Created sales materials (decks, one-pagers) tailored for English and German audiences.

Founder & Product Lead | Cross-Border Supply Chain (China–Russia) | Self-employed | May 2021 – Feb 2022

- Achieved **C\$10K** in monthly sales within three months of launch.
- Expanded the Telegram customer channel to ~350 members and deployed a support bot to streamline inquiries.
- Maintained customer response times within 24 hours.
- Directed end-to-end operations, including supplier sourcing, quality assurance, consolidation, international freight, and last-mile delivery.

PROJECTS

Python-based Bayesian Optimization in Organic-Synthesis: Maximizing Reaction Yields (Sep 2024 - Jan 2025)

- Built a **Python Bayesian Optimization pipeline (GP + EI)** for Pd-catalyzed arylation, improving predictive accuracy by ~20% vs. MLR and converging in 2–3 optimization rounds.
- Cut wet-lab runs by ~50% (≈14—21 experiments to optimal vs. ≈35—40 with conventional design), compressing iteration time from weeks to days.
- Productionized a reproducible workflow (scikit-learn/BoTorch) with k-means seeding + Thompson Sampling benchmark, parameterized over solvent/temp/catalyst.

Real-time trading platform (Oct 2024 - Dec 2024)

- Built and tested a Node.js backend with RESTful API (POST, GET, PUT, DELETE) to manage real-time trading data on an OracleDB.
- Developed complex SQL scripts for data aggregation, joins, and batch processing with a connection pooling strategy for high performance.
- Implemented a web-based frontend using HTML, JavaScript, and Fetch API to perform CRUD operations.

TECHNICAL SKILLS

Web Technologies: React.js | Node.js | HTML | CSS | JavaScript | Bootstrap | jQuery | Angular

Programming Languages: Java | C | C++ | Python | SQL | Swift

Data Science: TensorFlow | Keras | NumPy | Matplotlib | OpenCV | Pandas | scikit-learn

Databases: MongoDB | Firebase | MySQL | Oracle DB | Chrome DB

Miscellaneous: Git | REST APIs | Linux | Data Structures and Algorithms | Object-Oriented Programming