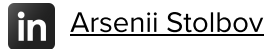
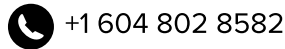
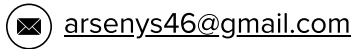


Arsenii Stolbov



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

AI 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 | Hidrolock - 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.
- 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

Multi-Modal Driver Monitoring System with ML Pipeline (Jan 2025 - Sep 2025)

- **Built a real-time driver-monitoring CV system** in Python (OpenCV, MediaPipe, YOLO) with multi-signal phone-use detection (face pose + brightness cues), sustaining **<33 ms latency @ 30 FPS** on live video.
- **Architected a scalable web app (Flask + Socket.IO)** with secure auth/session management and **real-time video** streaming to 50+ concurrent users via WebSockets; implemented rate limiting and session hardening.
- **Developed an advanced ML pipeline** (TDDFA 3D face recon + facial landmarks + behavioral analytics) with tunable thresholds and stats tracking, **cutting false positives by 60%**; productionized with Docker, structured logging, error handling, security auditing, and **CI/CD for seamless deploys**.

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

- Built and deployed a Node.js backend with RESTful APIs (POST/GET/PUT/DELETE) on **OracleDB**, enabling real-time trading and portfolio management; **cut query latency and boosted throughput via optimized indexing and Oracle connection pooling**.
- **Engineered SQL for scale** (aggregations, multi-table joins, batch jobs) and automation scripts (reset.sql, init.sql) to speed test cycles and ensure data consistency across environments.
- **Shipped a web frontend (HTML + JavaScript + Fetch)** for secure CRUD, delivering instant trade execution and portfolio updates while integrating financial reports, market news, and performance analytics for data-driven decisions.

SKILLS

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

Web Technologies: React | Angular | Node.js | JavaScript | TypeScript | HTML | CSS | jQuery | REST APIs

AI & Databases: scikit-learn | TensorFlow | Keras | Pandas | NumPy | Matplotlib | OpenCV | RAG (Retrieval-Augmented Generation) | Agentic AI Concepts | ML Algorithms (Supervised & Unsupervised) | Data Cleaning & EDA | OracleDB | MySQL | MongoDB | Firebase | ChromaDB

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

Product & Management: Product Management | Project Management | Market Research | Agile (Scrum/Kanban) | Digital Product Development | Website Management