

# Danila Ishchanka

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## EXPERIENCE

### Software Engineering Project

March 2025 – May 2025

*Vending Machine Simulation | C++20, OOP, Event-Driven Architecture*

Brookville, NY

- Developed DispenserContainer, Slot, and DispenserBin classes; implemented beverage selection, state transitions, and CLI interaction
- Architected and debugged event-driven logic using a custom EventManager to coordinate real-time component communication
- Collaborated in Agile sprints; led unit and integration testing of the dispenser system

### Software Developer

July 2024 – August 2024

*Telegram Booking Automation | Python, Aiogram, Google Calendar API*

Greenville, NY

- Developed a Python-based Telegram bot using Aiogram to automate bookings, connecting directly to Google Calendar's API to check/update instructor availability
- Engineered asynchronous functions (async/await) to manage 5+ concurrent booking sessions without lag or crashes
- Designed multi-step forms with input validation (regex checks for emails, time format enforcement) and session states to guide users through lesson selection
- Built automated systems to send confirmation PDFs and calendar invites using Google's Event API, cutting missed appointments by half

### Crypto-Mining Farm Engineer

March 2020 – Present

*GPU Mining Farm Optimization | Linux, Python, Hardware Configuration*

Minsk, Belarus

- Configured and maintained a 4-GPU mining rig (RTX 3060 Ti) with custom cooling solutions for 24/7 operation
- Wrote Python scripts to monitor hash rates, temperatures, and profitability across multiple mining pools
- Optimized power settings and network configurations to maintain consistent \$1,700+/month revenue
- Achieved ROI within 14 months through strategic coin selection and hardware maintenance

### Software Engineering Project

January 2024 – March 2024

*E-Commerce Platform Development | C++17, OOP, MVC Architecture*

Brookville, NY

- Developed inventory management system using STL containers (vectors/maps) handling 500+ SKUs with  $O(\log n)$  search efficiency
- Implemented SOLID principles in tax calculation module supporting multiple jurisdictional rules with 100% test coverage via Catch2
- Designed modular cart system using factory pattern, enabling support for 3+ payment gateways and multiple currency types
- Built CLI interface with input sanitization and exception handling, reducing user errors by 78% during beta testing

### NHCC

May 2024 – September 2024

*Tennis Head Professional Assistant*

Manhasset, NY

- As a Tennis Assistant, I managed schedules and bookings, taught private and group tennis lessons, and maintained tennis courts.
- Used communication skills and unique tennis experience to achieve an average of 30 lessons/week.

## EDUCATION

### Long Island University – Post

January 2022 – December 2025

*Bachelor of Science in Computer Science*

Brookville, NY

- ITA All-Academic team, NEC Spring Academic Honor Roll, NEC Prime Performer; 3.6/4.0 GPA
- Student-Athlete(Men's Tennis)

## SKILLS

- **Programming:** C++, C#, Python, JavaScript, SQL
- **Web Development:** HTML5, CSS3, Bootstrap, UX/UI Design
- **Frameworks/Tools:** Aiogram, Bootstrap, Catch2, STL, Git, Docker
- **APIs & Integrations:** Google APIs, Telegram API, JSON, Google Cloud
- **Software Development:** Agile/Scrum, Object-Oriented Programming (OOP), Data Structures and Algorithms, Software Development Life Cycle (SDLC), DevOps(CI/CD, Monitoring)
- **Database Management:** MySQL