Timofey Zhuchkov

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Technical Skills

Languages: TypeScript, JavaScript, GoLang, Swift, Java, Python, HTML, CSS
Technologies: Git, Nginx, React.js, AWS, Docker, Kubernetes, MySQL, REST APIs, Node.js, Express.js, CI/CD

Professional Experience

Qolt | Founder & Lead Developer | Swift, MySQL, Python — Since August 2024

- Created an **interactive** solution to procrastination and doom-scrolling.
- Leveraged Swift Family Controls and Device Activity libraries, reducing user's distraction screen time by **70%**, by providing a **robust and insightful** interface for blocking apps and tracking screen time.
- Spearheaded the design of **cost-effective** NFC module, helping users to reclaim **2 months each year** and **12 years** of life in total, by adding a "physical" layer of interaction to unblock apps.
- Implemented microservice architecture using Flask and Kubernetes for **scalable backend** operations
- Built monitoring systems for service health and performance metrics with **99.9% uptime**

SFU CS-Coder | Full Stack Developer | TS, React.js, PostgreSQL, Kubernetes — Aug - May 2025

- Designed and optimized a PostgreSQL database with 1000+ exercises, implementing **precise filtering and search** capabilities to enhance student engagement.
- Integrated **third-party AI API** hints system, improving student problem-solving speed by **4 times** while maintaining learning integrity.
- Reduced system workload by **40%** through Next.js client rendering, optimized API queries, and Kubernetes, ensuring efficient competition handling at big events.
- Collaborated with professor at SFU on a web app for students and teachers to create and participate in educational programming competitions, hosting more than **50 programming competitions**

CSM MapBan Service | Full Stack | TypeScript, React, WebSocket, Kubernetes — Dec - Jan 2024

- Built real-time web application supporting **100+ concurrent users** for cybersport tournaments.
- Developed custom frontend components using **React and Framer-motion** for immersive streaming UI.
- Configured production deployment pipeline with Nginx, Docker, and pm2 for **zero-downtime updates**.
- Integrated **WebSockets** for real-time synchronization between players and viewers.

Projects

Home Chores Bot | Python, Telegram API, Flask, Docker, Kubernetes — August - September 2024

- Built an **automated system** for distributing chores using Python microservices architecture.
- Integrated a **modular** and **extendable** reminders system, alongside with **automatic** check calculator, giving users freedom to adapt the bot for their environment.
- Set up **fault-tolerant** infrastructure using Kubernetes, allowing multiple households work independently.
- Delivered a **user-facing** interface using Telegram, giving an intuitive user experience for multiple platforms.

Education

Simon Fraser University, BSc. Computer Science – Software Systems — Sept 2022 – August 2026

- **Relevant Coursework:** Data Structures and Algorithms (Java), Operating Systems, System Design, Databases, Data Communications/Networking, Software Engineering, Distributed Systems, Linear Algebra, Discrete Math