

# Zhorzh Zelenkov

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## EDUCATION

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**University of Washington Paul G. Allen School of Computer Science** | GPA: 3.8 **Seattle, Washington**  
**B.S. in Computer Science; Minor in Physics & Slavic Studies** **June 2027**  
**Extracurricular Activities:** Swim Club (Vice President) | Balanced Man Scholarship | Kimura Family Scholar

## TECHNICAL SKILLS

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**Programming Languages:** Java, C/C#/C++, JavaScript/TypeScript, HTML/CSS, Golang, Python, Kotlin.  
**Frameworks & Tools:** React, Node.js, Cursor, GIT, Android Studio, Spring Boot, Linux, Unity, Claude.  
**Cloud & Databases:** AWS, Azure, MySQL, Google Cloud.  
**Coursework:** Data Structures & Algorithms, Theory of Computing, Linear Algebra, Hardware/Software Interface.

## PROFESSIONAL EXPERIENCE

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**Steinmetz Lab** | **SOFTWARE DEVELOPMENT ENGINEER** **November 2025 - Present**

- Contribute to Pinpoint, a probe-insertion planning tool for electrophysiology, by extending software features related to trajectory planning and brain-atlas interaction using Python and C#.
- Support the development and maintenance of Ephys Link, a Python Socket.IO server that enables communication between Pinpoint and various electrophysiology manipulators.
- Improved software quality and reliability by using modern C# features, strong type safety, and compile-time checks, along with static analysis and consistent coding standards.
- Assisted with reproducible builds and packaging using standardized build systems, dependency locking, and environment isolation (virtual environment), enabling clean and repeatable deployments.
- Implemented jackhammer mode feature enabling real-time motor control via Socket.IO API, including SDK integration, error handling, and position tracking for open-loop operations.

**Privacy and Security Lab (PAUL G. ALLEN SCHOOL)** | **RESEARCH ASSISTANT** **September 2025 - Present**

- Build automated web measurement pipelines using Python to collect and compare browser cookie state across controlled consent flows.
- Implement scripts to programmatically detect and interact with cookie consent banners (DOM parsing, event triggering), enabling scalable experimentation across websites.
- Designed data extraction and analysis workflows using Python to normalize, store, and compare cookie metadata.
- Performed iterative qualitative coding and thematic analysis to systematically classify and compare website behaviors across large-scale web datasets.
- Applied software engineering best practices including reproducible experiments, configuration-driven runs, and deterministic environment setup.
- Conducted technical literature review of web measurement systems and privacy compliance to inform tooling design and validation.

## PROJECTS

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**Optivise.dev** | Seattle, WA - *University of Washington* | **Hackathon 1st Place** **October 2025 - Present**

- Engineered an AI-driven A/B testing platform to automate UI experimentation, leveraging real-time data analysis for optimizing user engagement and conversion rates.
- Designed and deployed AWS Lambda functions to handle experiment assignment logic and event tracking, using API Gateway to expose secure RESTful endpoints.
- Used TensorFlow to simulate and compare A/B testing strategies, analyzing performance on synthetic user engagement data.
  - **Tech Stack:** React, TypeScript, Node.js, AWS Lambda & API Gateway, TensorFlow (A/B-testing models).

**VisualML (visualml.online)** **July 2025 - October 2025**

- Delivered interactive full-stack visualization tool using React and Spring Boot that reduced model interpretation time from hours to seconds, enabling non-technical users to understand Machine Learning decisions.
- Architected Spring Boot REST API with 100+ concurrent request handling.
- Achieved 96% classification accuracy on text datasets, reducing false positives by 40% through custom feature engineering and decision tree optimization using Python and Java.
- Integrated real-time progress streaming for long-running model training jobs, improving usability for end users.
  - **Tech Stack:** Java, Spring Boot, Python, React, MySQL, Google Cloud, Cursor.