Sam Korostov

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Education

University of Washington Seattle, WA

B.S. Electrical & Computer Engineering *Expected Graduation: June 2026*

- **GPA**: Cumulative 3.69, Departmental 3.76
- **Activities**: Beta Theta Pi
- **Relevant Coursework**: Linear Algebra, Data Structures & Algorithms, Object-Oriented Programming, Intermediate Programming Concepts and Tools (CLI, version control, low-level programming), Python for Signal Processing Applications (NumPy, SciPy, Matplotlib)

Experience

Teaching Assistant - CSE 12X Sept 2024 – Present

Paul G. Allen School of Computer Science & Engineering *Seattle, WA*

- Lead weekly sections of around 20 students, teaching introductory Java programming and fundamental computer science concepts.
- Provided hands-on support during office hours, assisting students with programming challenges and debugging issues.
- Responded to online inquiries, offering clarification and solutions on discussion boards.

Projects

DubHacks '24 Hackathon - Vocalytics | *AWS, REST APIs, Python, Node.js, Generative AI* October 2024

- Led the development of a generative AI-powered voice transcription app, *Vocalytics*, collaborating with a team at DubHacks '24.
- Architected and implemented the backend using AWS services and Python to process base64-encoded audio, transcribe it, correct grammar, and enhance the output using generative AI.
- Designed a pipeline using REST APIs to integrate the client-side frontend with the backend hosted on AWS Lambda, enabling real-time transcription and text enhancement through seamless communication.
- Authored comprehensive documentation and deployed code to GitHub.

Chess Game Development | *Java, Maven, Git* 2024

- Applied Object-Oriented design principles to implement a chess game in Java.
- Managed version control using Git and utilized Maven for project management and dependency handling.
- Currently developing core functionality and unit testing, with plans to implement a GUI and integrate a chess engine for AI-based gameplay.

Technical Skills

Programming Languages: Java, Python, C/C++, JavaScript, HTML, CSS
Software Development: Object-Oriented Programming (OOP), Data Structures & Algorithms, Unit Testing
Developer Tools: Git, IntelliJ, VSCode, Amazon Web Services (AWS) (API Gateway, Lambda, S3, Amazon Transcribe, Bedrock)