

Thomas Nguyen

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EDUCATION

Washington State University <i>Bachelor of Arts in Computer Science, Minor in Mathematics</i>	Pullman, WA Aug. 2024 – Present
Columbia Basin College <i>General Associate</i>	Pasco, WA Aug. 2022 – Aug. 2024

EXPERIENCE

Python Instructor, ESTEEMED MIRA Summer Program <i>Washington State University</i>	Jul 2026 – Present Pullman, WA
- Taught Python fundamentals across a four-week intensive, delivering 26 hours of instruction to undergraduates preparing for biomedical research careers - Designed lessons and exercises that introduced programming concepts to students with no prior coding background - Coordinated with program faculty and a co-tutor to track student progress and adjust pacing	
Undergraduate Research Assistant, Duttke Lab <i>Washington State University</i>	May 2026 – Present Pullman, WA
- Investigated nascent transcriptomics and gene regulatory programs in health and disease - Built and ran bioinformatics pipelines on WSU's Kamiak HPC cluster using Linux, Bash, and SLURM - Processed and analyzed csRNA-seq datasets with Python-based tooling - Collaborated with a PhD student mentor within a 10-member interdisciplinary lab	

PROJECTS

HomeRun <i>Python, Bash, SLURM, Linux, HPC</i>	May 2026 – Present
- Built a SLURM-based bioinformatics pipeline taking raw FASTQ files to annotated transcription start site maps with a single command - Automated trimming, alignment, TSS calling, QC, and HTML report generation across parallel HPC job arrays - Deployed and validated on WSU's Kamiak cluster for use by an active research lab - Preparing a software application note documenting the pipeline for submission to a peer-reviewed journal	
First Inquiry <i>Next.js, React, FastAPI, PostgreSQL, OpenAI API</i>	April 2026
- Built a Canvas-inspired learning platform pairing each course with an AI tutor for real-time explanations - Developed the Next.js/React frontend, including enrollment, submission, and tutor interaction flows - Architected with FERPA principles in mind using role-based access control and server-side data handling - Routed all AI calls through a locked-down backend gateway, keeping API keys entirely off the client - Configured GitHub Actions to run automated code coverage on every push, gated by a production deployment protocol	

TECHNICAL SKILLS

Languages: Python, C#, C/C++, Rust, Java, TypeScript, JavaScript, SQL (Postgres), Bash, HTML/CSS
Frameworks: React, Next.js, FastAPI, .NET, WinForms, NUnit
Developer Tools: Git/GitHub, GitHub Actions, Vite, Docker, SLURM, Linux/WSL, VS Code, Visual Studio
Libraries: NumPy, pandas
Game Development: Unity, Godot, SFML

CERTIFICATIONS

AI Fluency: Framework & Foundations , Anthropic	Jun. 2026
Claude 101 , Anthropic	Jun. 2026

REFERENCES

Dr. Sascha Duttke <i>Assistant Professor, School of Molecular Biosciences, WSU</i>	sascha.duttke@wsu.edu (509)-335-6853
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