

# Andrey Risukhin

andrey.risukhin@outlook.com 425-443-0993  
linkedin.com/in/andreyrisukhin github.com/andreyrisukhin

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## EDUCATION

### University of Washington

M.S. Computer Science

B.S. Computer Science with Data Science

Skills: Deep Learning Research, User-Centered Design, Data Visualization

Python, R, SQL, Java, C++

**GPA: 3.64**

Graduation Dec 2024

Graduation Dec 2023

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## WORK EXPERIENCE

### Stealth Startup

Jun 2023 – Present

Machine Learning Lead

- Designed, implemented Python service sourcing 10M web data records, to overcome cold start problem model training
- Owned critical search and recommendation algorithm, from design, QA, training, and implementation (ongoing)

### Noah's ARK Natural Language Processing Lab (UW)

Sep 2022 – Present

Undergraduate Research Assistant

- Implemented, evaluated 3 efficient transformer attention methods (einsum, PyTorch) into Fairseq repository
- Prepared 10% of Wikitext-103 dataset (bash script) used to train and compare 3 models (200M parameters each)
- Organized weekly lab meetings, coordinating guest speakers and discussion of contemporary NLP methods, incentives

### Yoodli (AI Speech Coaching Startup)

Feb 2023 – Mar 2023

Machine Learning Intern

- Ran 3 experiments, extracting context from speeches that informed AI generated coaching feedback (Python, OpenAI)
- Presented analysis of 1000 most recent speeches, results of experiments. Deployed context extraction to production

### Avanade

Jun 2022 – Aug 2022

Data Engineering and Solution Area Intern

- Trained 10x faster utility pole care models (Azure Cognitive Services). Raised 50% baseline accuracy to 70%, clean data
- Wrote SQL for client-facing IaaS/PaaS price comparison webapp. Practiced Azure DevOps, agile methodology
- Created, pitched AI metaverse project for internal FUEL Hackathon. Earned top NA AI project (230 participants)

### Computer Vision Physiological Signal Detection (UW)

Dec 2021 – Jun 2022

Undergraduate Research Assistant

- Augmented subject videos (OpenCV), achieving 8.6x lower Mean Average Error on pulse and respiration MTTs-CAN
- Applied linear, nonlinear lighting augmentation to UBFC dataset, ran 50 experiments boosting cross-tone prediction

### Paul G. Allen School of Computer Science

Mar 2021 – Jun 2021

Machine Learning Teaching Assistant

- Taught 20 students machine learning with PyTorch, Pandas and Scikit-Learn for data and deep learning
- Introduced students to graphical inference, networks, and singular value decomposition applications
- Developed coding worksheets to teach neural networks, regularization, performance metrics, and model equity

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## TECHNICAL EXPERIENCE

### RigMonkey Data Scientist | Founded Startup

Feb 2021 – Dec 2021

- With 3 cofounders, used Pitchbook market data and 40 user research interviews to validate our business
- Owned automated PC build creation, fulfilling 200 user requests for tailored, best-on-market builds

### Networks & Choice Ranking | Statistics & Probability Association

Mar 2021 - Jun 2021

- Implemented graph ranking models: MultiLogit, PageRank, SpringRank to infer faculty hiring across institutions
- Studied, presented utility and choice-making models for networks through 1:1 PhD student-directed reading