Aibo Feng

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EDUCATION

University of Washington Sept 2022 – Dec 2025
B.S. in Computer Science *Seattle, WA*
- **Relevant Coursework**: Algos, Software Design, Linear Algebra, Probability Stats, ML/DL, Computer Vision, NLP, Databases, Computer Security, Compilers, Networking, Operating Systems, Distributed Systems, Datacenter Systems

WORK EXPERIENCE

Software Engineer Intern June 2025 – Sept 2025
Oracle, Cloud Success Navigator *Redwood Shores, CA*
- Delivered 4 frontend features—tabs in feature guidance drawer, new metadata for Oracle Guided Learning integration, dropdown menu for sunburst widget, and user tagging for comments—using Preact/TypeScript and Oracle JET.
- Developed 10 backend FastAPI and GraphQL (BFF) endpoints for new UI features; optimized retrieval with Redis.
- Authored unit tests with pytest (backend) and Jest (frontend), achieving 90%+ coverage across all code changes.
- Root-caused and resolved 3 cross-stack bugs involving frontend state synchronization and backend data consistency.

Software Development Engineer Intern June 2024 – Sept 2024
Amazon Web Services (AWS), Marketplace SaaS *Austin, TX*
- Designed & implemented an automated large-scale data validation workflow for 20,000+ AWS Marketplace SaaS products using Java, TypeScript, and AWS (Lambda, Step Functions, S3, and CloudWatch).
- Developed a proactive issue resolution system that automatically identified and cut tickets for detected issues across all SaaS products, eliminating up to 100% of high-severity customer-reported incidents and reducing resolution times by over 60%.
- Coordinated with cross-functional stakeholders to align auditing processes with team and business workflows.
- Deployed & maintained IaC via AWS CDK and CloudFormation for high serviceability and availability for future use cases.

Software Engineer Intern June 2023 – Sept 2023
ACES Academic Enrichment Center *Austin, TX*
- Developed an automated content extraction and retrieval pipeline (converting raw scanned documents to question + answer database) for the SAT exam tutoring team, streamlining the processing of a large volume of scanned exam papers.
- Implemented exam preprocessing system (contour detection, thresholding, text recognition) via OpenCV and EasyOCR.
- Designed a MongoDB database and a REST API for efficient storage and retrieval of extracted content.
- Collaborated with tutoring team and incorporated feedback to refine extraction accuracy and usability, resulted in 98% accuracy rate in extracting questions and answer choices from raw exam scans, reduced total text extraction time by 72%.

RESEARCH

Undergraduate Researcher Jan 2024 – June 2024
University of Washington *Seattle, WA*
- Conducted research on temporal dynamics of scientific information propagation on Wikipedia, applying NLP and data mining to build a pipeline for extracting and analyzing knowledge dissemination.
- Leveraged BeautifulSoup and NLTK to mine and preprocess data from Wikipedia and PubMed (∼100k articles total).
- Integrated NLP models such as GPT and BERT to deconstruct wiki edits into discrete facts and capture semantic changes.
- Experimented with BM-25, Contriver, TF-IDF, and Dense Passage Retrieval to build Wikipedia to ground-truth mappings.
- Presented preliminary findings in the 2024 Allen School Undergraduate and Master's Research Showcase.

PROJECTS AND LEADERSHIP

Sharded, Paxos-Replicated Distributed Key-Value Store | *Java* Dec 2024
- Designed and implemented a sharded, Paxos-replicated distributed key-value store with dynamic shard assignments, fault tolerance, load balancing, and transactional consistency using Paxos consensus and two-phase commit.

Imitation Learning for Quadruped Locomotion | *Python, Numpy, PyTorch* Mar 2024
- Conducted research on neural network architectures (FCN, RNN, LSTM) for behavior cloning in quadruped robots to improve locomotion performance and gait accuracy.

DEV[0] at UW | *Flutter, React, NodeJS* Nov 2022
- Co-founded DEV[0], a registered student organization at the University of Washington that empowers over 100 students through hands-on workshops in web and mobile app development.

TECHNICAL SKILLS

Languages: Java, Python, C/C++, Go, SQL, Assembly, JavaScript/TypeScript, HTML/CSS
Frameworks: React, NodeJS, Express, FastAPI, GraphQL, gRPC, Flutter
Tools: Git, LaTeX, Linux, Unix, Java (Maven, Gradle), REST APIs, Redis, Docker, Kubernetes, Azure, AWS (CloudFormation, CDK, Step Functions, Lambda, CloudWatch, EventBridge, S3, IAM), Jupyter Notebook
Libraries: pandas, NumPy, OpenCV, PyTorch, pytesseract, SQLite, Selenium, Beautiful Soup, JUnit