Jamie Lee

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Education

The University of Texas at Austin Aug 2023 – May 2027
Bachelor of Science in Computer Science, Minor in Statistics and Data Science *GPA: 3.49*

Certifications

AWS Certified Developer - Associate | Amazon Web Services (AWS)
Certified Kubernetes Application Developer | Cloud Native Computing Foundation (CNCF)

Experience

Software Engineer AI/ML Intern March 2025 – August 2025
Tern *New York City, New York*

- Researching the transition from floating-point to ternary LLMs for hardware processors with ML & Python
- Coding, debugging & documenting to develop tooling and simulation environments to test model architectures
- Reviewing research papers and current news to inform the development of quantization-aware training and inference techniques
- Contributed to paper on ternary weight transformer, BitNet b1.58, and proved its memory efficiency & energy reduction

Projects

Wildfire Tracker | *React, NASA EONET API, JavaScript, HTML/CSS* October – November 2025

- Engineered a React-based single-page application to monitor global wildfire activity in real time by consuming NASA's EONET REST API
- Designed modular React components with hooks to manage API calls, data fetching, and rendering lifecycle
- Implemented asynchronous data pipelines with fetch/async-await to handle network latency and error states gracefully
- Integrated geospatial visualization (Leaflet.js/Google Maps API) to map wildfire event coordinates dynamically with interactive markers

Fraud Detection Using ML | *Python, scikit-learn, Pandas, NumPy, Matplotlib* October – November 2025

- Built and evaluated a machine learning pipeline to classify fraudulent vs. legitimate credit card transactions on a highly imbalanced dataset
- Applied preprocessing techniques including feature scaling, train-test splitting, and SMOTE oversampling to address class imbalance
- Implemented multiple models (Logistic Regression, Random Forest, Gradient Boosted Trees) and optimized hyperparameters using GridSearchCV
- Visualized model performance with ROC curves, confusion matrices, and precision-recall tradeoffs

Pintos Operating System | *C, Git, Shell, GitLab* October – December 2024

- Expanded on Pintos to simulate real-world OS development challenges and gain hands-on experience with OS fundamentals
- Implemented system calls for user programs, handling user-kernel mode transitions and ensuring argument passing on the stack
- Added virtual memory with demand paging & stack growth and integrated synchronization constructs to eliminate race conditions
- Converted existing single-threaded file system into multi-threaded file system to incorporate concurrency & parallelism

Technical Skills

Programming Languages: Java, C, Python, Clojure, SQL, JavaScript (ES6+), HTML5, CSS3
Frameworks & Libraries: React, Node.js, TensorFlow, PyTorch, Pandas, NumPy, Scikit-Learn, Matplotlib
Cloud & DevOps: Amazon Web Services (AWS: EC2, S3, Lambda, DynamoDB, ElastiCache, CloudFormation VPC, SDK, CLI), Kubernetes, Docker, CI/CD Pipelines, DevOps, Serverless Architecture
Developer Tools: Git, GitHub, GitLab, VSCode, IntelliJ, Eclipse, Jupyter Notebook, RStudio, WordPress