

# Vikram Kramer

## Junior Engineering Intern

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### STRENGTHS

- ☁ **Cloud learning**  
Built AWS prototypes with EC2, S3, IAM, and CloudWatch; faculty reviewers valued clear setup notes and steady progress through unfamiliar tools.
- 🔍 **Scalable search**  
When searches slowed under simulated load, added indexing and benchmarks first. Results gave peers a clearer basis for infrastructure decisions.
- **Linux operations**  
Created shell scripts for setup, logs, and service checks. Classmates often turned to those scripts when demonstrations needed a quick reset.
- ♥ **Technical clarity**  
Documented test limits instead of overstating results. That candid approach earned an Outstanding Technical Documentation Award from the lab.
- 👥 **Team contribution**  
Git reviews and issue tracking kept a three-person lab team aligned. Peer feedback became a practical way to improve each release.

### SKILLS

Cloud computing   Linux   Windows  
SAP   Python   Java   Docker  
AWS services   REST APIs  
Natural language processing  
Artificial intelligence  
Machine learning  
Data compression

### SUMMARY

Early-career computer engineer ready to contribute alongside experienced engineers on cloud products and services. Academic work has built practical skill across **cloud computing**, Linux and Windows **operating systems**, SAP S/4HANA, software delivery, **natural language processing**, **artificial intelligence**, machine learning, data compression, and search technologies. Developed a Python and Docker document service tested against 12,000 records, then used AWS EC2, S3, IAM, and CloudWatch for deployment and operational checks. Built repeatable Linux workflows, REST APIs, shell scripts, indexing tests, and retrieval benchmarks. Brings curiosity, clear documentation, constructive peer communication, and genuine interest in learning through mentorship while helping project teams address scalability and massive-data access challenges.

### EDUCATION

#### Bachelor's Degree in Computer Engineering

University of Texas at Arlington 🎓 GPA: 3.8 📅 2026 📍 Arlington, TX

***Coursework:** Cloud computing, operating systems, machine learning, information retrieval, database systems*

### TECHNICAL SKILLS

- **Cloud Platforms:** AWS EC2, AWS S3, AWS IAM
- **Cloud Monitoring:** AWS CloudWatch, operational checks, deployment logs
- **Operating Systems:** Linux, Windows, Bash
- **Programming Languages:** Python, Java, SQL
- **Containers and APIs:** Docker, REST APIs, container workflows
- **Machine Learning:** Supervised learning, cross-validation, held-out testing
- **NLP and Search:** Tokenization, text classification, vector search
- **Data Compression:** Huffman coding, run-length encoding, decompression testing
- **Enterprise Systems:** SAP S/4HANA, master data, business-process scenarios
- **Development Tools:** Git, issue tracking, code review
- **Testing and Benchmarks:** Precision, recall, query benchmarks
- **Technical Documentation:** Runbooks, test cases, deployment guides

### EXPERIENCE

#### Cloud Engineering Practicum Student

University Cloud Systems Lab 📅 January 2026 - May 2026 📍 Austin, TX

Supported a faculty-sponsored cloud systems lab focused on document retrieval, Linux operations, AWS infrastructure, and scalable access to a large data corpus. Worked with three classmates and a faculty mentor through **Git** reviews, issue tracking, testing, and technical demonstrations. Delivered practical evidence that helped reviewers assess reliability, **infrastructure** tradeoffs, and service behavior.

- Built a **Linux**-based **Python** and Docker document retrieval service with REST endpoints for about 12,000 records, giving faculty a repeatable search demonstration.
- Configured AWS EC2, S3, IAM, and **CloudWatch** for development, then documented access controls and deployment checks so teammates could reproduce setup safely.
- Added indexing, query-response benchmarks, and concurrent-search tests to clarify massive-data access patterns and inform scaling discussions.
- Investigated memory use and response time under simulated load, presenting infrastructure tradeoffs that shaped final review recommendations.

Information retrieval

Technical documentation

## LANGUAGES

English Native

German Intermediate

## MY CAREER



● Cloud Engineering Practicum Student at University Cloud Systems Lab (4 Months)

● Machine Learning and NLP Project Student at University Applied AI Project (4 Months)

● SAP and Operating Systems Lab Assistant at Student Enterprise Systems Lab (4 Months)

- Created Bash scripts for environment setup, log collection, and service validation, reducing repeated manual work during demonstrations and **troubleshooting**.
- Partnered with classmates and a faculty mentor through Git-based code reviews, issue tracking, and test documentation to deliver a stable end-of-term release.

### Machine Learning and NLP Project Student

University Applied AI Project 📅 August 2025 - December 2025 📍 Austin, TX

Completed a supervised applied AI project connecting natural language processing, artificial intelligence, machine learning, **data compression**, and **search technologies**. Built a reproducible Linux and Docker workflow for a 9,000-document dataset. Presented technical findings to a six-member review panel, balancing useful results with clear limits around prototype performance.

- Developed a Python NLP pipeline that cleaned, tokenized, and classified 9,000 news documents, creating a practical foundation for cloud-ready search experiments.
- Compared baseline and vector search with precision, recall, and reviewed query results, identifying retrieval limits in ambiguous information requests.
- Implemented Huffman coding and run-length encoding tests across structured and unstructured samples, measuring storage savings and decompression accuracy.
- Applied **cross-validation** and held-out test sets to examine model behavior, recording findings and limitations in a technical report for reviewers.
- Containerized training and search workflows with **Docker** on **Linux**, helping classmates reproduce experiments and reducing environment-related confusion.
- Presented an integrated NLP, AI, compression, and search solution, then incorporated panel feedback into final documentation and repository updates.

### SAP and Operating Systems Lab Assistant

Student Enterprise Systems Lab 📅 January 2025 - May 2025 📍 Austin, TX

Provided supervised lab support for SAP S/4HANA, Linux, Windows, SQL, Python, and Git activities. Helped a 20-student section prepare environments, resolve routine setup issues, and document recovery steps. Connected enterprise-system data flows with operating-system services and cloud deployment concepts during a final presentation.

- Completed guided **SAP S/4HANA** exercises covering navigation, organizational structures, master data, and business-process scenarios in a university lab.
- Prepared **Linux** and **Windows** setup notes for a 20-student section, troubleshooting permissions and environment variables before escalating unresolved issues.
- Wrote **SQL** queries and Python utilities to validate sample SAP records, catching formatting inconsistencies before classroom demonstrations.
- Compared Linux and Windows process, file-system, and service-management commands through controlled tasks, giving teams clearer platform reference notes.
- Used Git for version control and maintained runbooks for installation, test-data preparation, common errors, and recovery steps.
- Presented links among **SAP** data flows, operating-system services, and cloud deployment considerations in a supervised end-of-term review.

## PROJECTS

### Cloud Document Retrieval Service 📅 2026

Built a Python, Docker, Linux, and AWS prototype that exposed REST search endpoints across about 12,000 records. Added indexing, benchmarks, IAM controls, CloudWatch checks, and concurrent-query analysis for scalable information retrieval.

### Compressed Text Search Pipeline 📅 2025

Created a machine learning and NLP workflow that classified news documents, compared search methods, and tested Huffman coding with run-length encoding. Documented precision, recall, storage results, and reproducible Docker execution.

### SAP Operating Systems Integration Lab 📅 2025

Connected SAP S/4HANA exercises with Linux and Windows administration tasks, SQL validation, Git workflows, and cloud deployment concepts. Produced setup notes and recovery guidance for a supervised student lab.

## LEADERSHIP & AWARDS

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- Dean's List, University of Texas at Arlington, Fall 2025
- Outstanding Technical Documentation Award, University Cloud Systems Lab, 2026
- Finalist, Maverick Engineering Innovation Showcase, 2025

## CERTIFICATIONS

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- AWS Academy Cloud Foundations 📅 2025
- Cisco Networking Academy Linux Essentials 📅 2025
- SAP University Alliances: Discovering SAP S/4HANA 📅 2026

## PROFESSIONAL AFFILIATIONS

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- Peer Mentor, Computer Engineering Student Success Program, 2025 - 2026
- Project Documentation Lead, Cloud Systems Student Group, 2025 - 2026
- Volunteer Demonstrator, University Engineering Open House, 2025

## ADDITIONAL INFORMATION

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**Work Status** : Authorized to work in United States. No sponsorship required.

## REFERENCES

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AVAILABLE ON REQUEST