

# Edwin Gates

(281) 555-1234 | edwin.gates@example.com

linkedin.com/in/edwingates | 1234 Elm Street, Houston, TX 77001



## SUMMARY

Driven computer science student focused on software development and AI technologies. Developed innovative solutions through academic projects and teamwork. Proficient in Python, Linux, and containerization tools. Experience with deploying scalable applications using Kubernetes and Docker. Eager to leverage skills effectively in this internship, adding value in AI development and DevOps practices while learning from industry experts.

## EDUCATION

### Bachelor of Science in Computer Science

University of Houston | GPA: 3.8

2027

Houston, TX

*Coursework: Data Structures, Operating Systems, Machine Learning, Database Management*

## TECHNICAL SKILLS

- Programming Languages:** Python
- Containerization Tools:** Docker
- Orchestration Systems:** Kubernetes
- Source Control:** Git
- Machine Learning Frameworks:** TensorFlow, Scikit-learn, PyTorch
- Operating Systems:** Linux
- CI/CD Tools:** Jenkins, GitLab CI, CircleCI
- APIs:** REST, GraphQL
- Data Handling Libraries:** NumPy, pandas, Matplotlib
- Testing Frameworks:** JUnit, pytest

## SKILLS

- Python
- Git
- Data Analysis
- Version Control
- Docker
- Machine Learning
- API Integration
- Performance Optimization
- Kubernetes
- CI/CD
- Troubleshooting
- Natural Language Processing
- Linux
- AI Development
- Interactive Applications
- Collaborative Development

## EXPERIENCE

### AI Application Developer

January 2026 - Present

University Project

Houston, TX

Developed AI-driven applications focusing on user experience and functionality, enhancing interactions via intelligent features.

- Implemented AI applications using Python, achieving targeted functionality and adaptability in various contexts.
- Integrated Large Language Model (LLM) APIs to improve natural language processing outcomes.
- Constructed Docker containers for app deployment, streamlining process efficiency.
- Collaborated with peers, optimizing scalable architectures for efficient application deployment in Kubernetes environments.
- Represented the project in code reviews, ensuring a shared vision and effective troubleshooting.
- Developed CI/CD pipelines that automated testing and deployment processes, improving overall project workflow.

### Machine Learning Research Assistant

September 2025 - December 2025

Academic Research

Houston, TX

Contributed to exploration of AI algorithms and machine learning techniques aimed at solving practical challenges and generating publishable findings.

- Utilized Python libraries to analyze data, assisting model developments featured in research publications.
- Participated in weekly lab meetings, ensuring feedback loops for continuous improvement of project initiatives.
- Engaged in systematic code reviews that elevated the robustness and reliability of research outputs.
- Conducted experiments using diverse machine learning frameworks to identify optimal solutions for ongoing research.
- Documented results consistently, providing structured support for future scholarly endeavors.

- Actively collaborated across teams, translating technical findings into actionable recommendations.

## Team Member

March 2025

### Hackathon Project

*Houston, TX*

Collaborated within a competitive setting to deliver an AI-based application prototype, resulting in recognition for creativity and technical execution under time constraints.

- Worked alongside a team to develop an AI application, gaining hands-on experience in project lifecycle.
- Exceeded expectations by utilizing Docker for effective environment control during stages of development.
- Presented the final product during concluding pitches, showcasing creativity combined with solid technical foundations.
- Maintained seamless project organization through Git usage, facilitating smoother progress updates and version control adjustments.

## LEADERSHIP & AWARDS

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- Dean's List, University of Houston, Fall 2025
- First Place, University Hackathon, March 2025

## CERTIFICATIONS

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- Python Programming Certificate 📅 2025
- Docker Essentials 📅 2025

## PROFESSIONAL AFFILIATIONS

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- Member, Computer Science Club, University of Houston
- Volunteer, Local Coding Bootcamp, 2025

## LANGUAGES

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- English (Native)
- Spanish (Proficient)

## 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