

Brayden Horn

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SUMMARY

Dynamic Senior Applied & Agentic AI Engineer with over 9 years of experience in innovative AI solutions and machine learning systems. Proven track record in architecting advanced AI frameworks and leading cross-functional teams to deliver high-quality, scalable solutions. Adept at mentoring others in complex engineering practices and ensuring compliance with industry standards. Committed to driving technological advancements in AI and enhancing system efficiencies.

EXPERIENCE

Senior AI Engineer January 2022 - Present
Tech Innovations Group *Atlanta, GA*

Lead the design of autonomous workflow systems that optimize operational processes across departments, delivering measurable improvements effectively. Mentor junior engineers on advanced AI methodologies to bolster team capabilities. Collaborate extensively with cross-functional teams, integrating AI solutions seamlessly into existing workflows. Conduct thorough evaluations of AI performance metrics, contributing significantly to reliability and efficiency.

- Define technical strategies for retrieval-augmented generation and automate workflows effectively.
- Design agentic systems adept at planning, reasoning, tool selection, execution, reflection, and recovery.
- Coordinate frameworks managing task routing and context persistence.
- Institute integration layers connecting agents to broader systems and external data services.

AI Systems Architect June 2018 - December 2021
NextGen AI Labs *Boston, MA*

Developed agentic AI systems enhancing decision-making processes with real-time insights. Designed secure frameworks allowing effective interactions among various AI tools and legacy systems. Established rigorous performance benchmarks, leading exhaustive tests prior to deployment ensuring launch viability. Initiated methods refining data retrieval processes, significantly improving operational response times.

- Implement monitoring strategies for tracking agent decisions and ensuring model performance.
- Lead comprehensive testing protocols for new AI features before release.
- Translate business objectives into actionable AI platform capabilities.
- Assess emerging AI models continuously for enterprise readiness.

Machine Learning Engineer July 2016 - May 2018
Alpha Robotics *Seattle, WA*

Engaged in creating predictive analytics models enhancing product recommendations fundamentally. Collaborated on successful projects embedding AI-driven insights, achieving demonstrable improvements in operational efficiencies. Contributed actively during code reviews and technical design sessions fostering architectural innovations and collaborative growth.

- Assist in building assessment frameworks measuring reasoning accuracy and completeness.
- Drive improvements maximizing token efficacies and inference scalability.
- Promote observability for improved tracking of project outcomes.
- Facilitate teamwork efforts increasing overall system enhancement.

LEADERSHIP & AWARDS

- Recipient of Innovative Thinker Award for leadership in advancing AI technology implementation.
- Recognized as Top Mentor by peers for contributions to team skill development and fostering knowledge transfer.

EDUCATION

Bachelor's Degree in Computer Science 2016
State University GPA: 3.8 *Springfield, IL*

Coursework: Programming, Data Structures, Machine Learning, Software Engineering

CERTIFICATIONS

- Certified Machine Learning Specialist 📅 2020
- AI Engineering Professional Certification 📅 2021

TECHNICAL SKILLS

- **Architectural Tools:** Knowledgeable about LLM-powered system architectures.

- **Collaboration Tools:** Experience using JIRA, Confluence, Slack.
- **APIs:** Expertise in RESTful and GraphQL API standards.
- **Cloud Technologies:** Familiarity with AWS and Azure cloud service environments.
- **Data Storage:** Experience with NoSQL databases such as MongoDB, Redis.
- **Model Evaluation:** Skilled in designing evaluation frameworks for LLMs.
- **Performance Monitoring:** Utilizing observability layers for tracking AI models.
- **Security Techniques:** Understanding of guardrails and schema validations.
- **Data Analytics:** Customized analytics using Python for insights iterations.
- **Workflow Engines:** Competent with orchestration frameworks like Apache Airflow.

SKILLS

- Artificial Intelligence
- Machine Learning
- Python
- Microservices Architecture
- API Integration
- System Reliability
- Workflow Automation
- Data Analysis
- Distributed Systems
- Event-Driven Architectures
- Secure Agent Development
- Agentic Frameworks
- Memory Management
- Optimizations Techniques
- Integration Layers
- Compliance Standards

PROFESSIONAL AFFILIATIONS

- Active member of AI Developers Association promoting best practices in AI ethics.
- Participant in local tech community events focusing on sustainable AI solutions.

LANGUAGES

- English (Native)
- Spanish (Proficient)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST