Bryan Learn

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Professional Summary

Accomplished Software Engineer with over a decade of experience in developing cutting-edge solutions and leading AI integration projects. Proven expertise in Python, Node.js, and JavaScript frameworks, complemented by a robust background in machine learning and AI-driven innovations. Adept at architecting scalable infrastructures and spearheading cross-functional collaborations to drive technological advancements and operational efficiency. Committed to mentoring and fostering a culture of continuous learning while delivering impactful solutions in dynamic environments.

Professional Experience

AI Integration Engineer

Buchanan Ingersoll & Rooney, Pittsburgh, PA   May 2024 - Present

- Spearheaded the development and delivery of Buchanan Artifex, the firm's generative AI platform, significantly enhancing AI capabilities and driving firm-wide innovation.

- Designed and implemented fault-tolerant, scalable infrastructure to support firm-wide AI tasks, ensuring system reliability and efficiency for an organization of 500 to 1,000 employees.

- Collaborated with cross-functional teams to successfully integrate AI-driven solutions, improve operational efficiency, and foster firm-wide adoption.

- Mentored junior engineers, promoting a culture of continuous learning and professional development, and authored comprehensive documentation to facilitate knowledge sharing.

Lead Developer

DorothyAI, Pittsburgh, PA   Jan 2023 - May 2024

- Pioneered the development and optimization of core search solutions, leveraging advanced search models and Apache Solr for efficient data retrieval.

- Designed AI-driven features that improve semantic similarity, entity recognition, and text generation.

- Mentored and guided engineering teams, enhancing collaboration and project delivery.

Full Stack Engineer (Freelance)

Self-Employed, Pittsburgh, PA   May 2022 - Present

- Enhanced API functionality and introduced features using React, Next.js, ASP.NET, and Django.

- Managed AWS cloud infrastructure, ensuring scalability and seamless data operations.

- Developed full-stack applications that prioritize clean integration and optimal user experience.

Full Stack Engineer

DorothyAI, Pittsburgh, PA   Jun 2020 - May 2022

- Led UI development using React, from concept through deployment.

- Integrated AI functionality with backend services in ASP.NET and Node.js.

- Oversaw the AWS cloud infrastructure for web applications.

Research Programmer

Carnegie Mellon University, Pittsburgh, PA   Oct 2019 - Jun 2020

- Developed React-based web applications with MongoDB integration.

- Designed and managed cloud infrastructure to support research projects.

Full Stack Engineer

Carnegie Mellon University, Pittsburgh, PA   Jun 2019 - Oct 2019

- Implemented front-end features on a large educational platform using Django.

- Developed APIs for seamless frontend-backend integration.

Faculty

Pennsylvania Governor's School, Pittsburgh, PA   Jan 2018 - Dec 2019

- Developed and taught the "Intro to Machine Learning" lab course.

Network Programmer

Pittsburgh Supercomputing Center, Pittsburgh, PA   Apr 2014 - Jun 2019

- Designed and developed SDN controllers and APIs using Python and Ryu.

- Designed web applications with JavaScript and Python for enhanced data accessibility.

- Supported research initiatives through grant proposal drafting and software solutions.

Applications Administrator

Shippensburg University, Shippensburg, PA   Aug 2013 - Apr 2014

- Implemented a new degree audit system for 7,000+ users.

- Transitioned legacy systems to Oracle using Perl and PL/SQL.

Education

Master of Science (M.S.) in Computer Science

Shippensburg University, Shippensburg, PA   2012 - 2014

Bachelor of Science (B.S.) in Computer Science

Slippery Rock University, Slippery Rock, PA   2008 - 2012

Skills

- **Expert:** GenAI, Natural Language Processing, Python, Node.js, JavaScript, HTML/CSS, Linux, SQL, NoSQL, Solr, Microservices, TCP/IP

- **Proficient:** React, TypeScript, C#, C, C++, Java, CI/CD, Workflow Automation, Operations, Nginx, Load Balancers, Caching, Queuing, AWS, Software-Defined Networking, Deep Learning, Vector Embeddings