

Bryan Learn

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Innovative software engineer with a passion for crafting cutting-edge solutions. Specializing in Python, Node.js, databases, and JavaScript frameworks, with a robust background in machine learning applications and integrations since 2017.

EXPERIENCE

Lead Developer

Jan 2023 - Present

DorothyAI, Pittsburgh, PA

- **Enhanced Search Solutions:** Spearheaded the development and maintenance of core search solutions, optimizing information retrieval from extensive databases using advanced search models. Implemented and optimized indexing of data into Apache Solr for efficient searching and retrieval.
- **AI Integration:** Architected and implemented advanced search models, integrating AI functionalities to enhance product functionality, including semantic similarity tasks, entity recognition, and text generation.
- **Team Leadership:** Mentored and onboarded new engineering talent, fostering collaborative relationships with contractors to drive project success.

Full Stack Engineer (Freelance)

May 2022 - Present

Self-Employed, Pittsburgh, PA

- **API Enhancement:** Enhanced APIs and introduced new features across React, Next.js, ASP.NET, and Django projects.
- **Cloud Infrastructure Management:** Managed AWS cloud infrastructure, ensuring seamless deployment, scalability, and efficient data exchange and interoperability.
- **Full Stack Development:** Engineered full stack applications using React, Node.js, ASP.net, and Django, prioritizing clean integration practices for optimal user experience.

Full Stack Engineer

Jun 2020 - May 2022

DorothyAI, Pittsburgh, PA

- **UI Development:** Orchestrated UI development lifecycle utilizing React, from concept to deployment
- **AI Backend Integration:** Designed and deployed backend services integrating AI functionalities with ASP.NET and Node.js
- **Cloud Infrastructure Management:** Managed AWS cloud infrastructure for seamless operation of web applications.

Research Programmer

Oct 2019 - Jun 2020

Carnegie Mellon University, Pittsburgh, PA

- **Web Application Development:** Spearheaded development of React-based web applications integrated with MongoDB.
- **Cloud Infrastructure Management:** Conceptualized and managed cloud infrastructure to support research initiatives.

Full Stack Engineer

Jun 2019 - Oct 2019

Carnegie Mellon University, Pittsburgh, PA

- **Frontend Development:** Implemented frontend features on a large education platform with Django.
- **Testing and Coverage:** Wrote unit tests and managed code coverage.
- **API Design:** Designed APIs integrating cloud microservices, enabling seamless communication between frontend and backend systems.

Faculty

Jan 2018 - Dec 2019

Pennsylvania Governor's School, Pittsburgh, PA

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

Network Programmer

Apr 2014 - Jun 2019

Pittsburgh Supercomputing Center, Pittsburgh, PA

- Designed and developed a robust SDN controller and API using Python and Ryu, enhancing network management and efficiency.
- Engineered web applications with JavaScript, Python, InfluxDB, and MongoDB, ensuring streamlined data accessibility.
- Played a pivotal role in on-call rotation for operations, showcasing resilience and flexibility in resolving production issues to minimize downtime.
- Committed to supporting research initiatives by drafting grant proposals and engineering software solutions, amplifying funding opportunities.

Applications Administrator

Aug 2013 - Apr 2014

Shippensburg University, Shippensburg, PA

- Rolled out a new degree audit system to over 7,000 users.
- Transitioned from legacy to Oracle system using Perl and PL/SQL.

EDUCATION

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

2012 - 2014

Shippensburg University, Shippensburg, PA

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

2008 - 2012

Slippery Rock University, Slippery Rock, PA

SKILLS

Expert in: natural language processing, python, node.js, javascript, html/css, linux, sql, nosql, solr, microservices, tcp/ip

Proficient in: react, typescript, c#, c, c++, java, ci/cd, workflow automation, operations, nginx, load balancers, caching, queuing, aws, software-defined networking, deep learning, vector embeddings