Michael Brown

101 Granite St, Concord, NH 03301 • (603) 545-1578 • michaelbrown95049@gmail.com

Dynamic software engineer with 11 years of experience in Analysis, Design, Development, Testing, Customization, Bug fixes, Enhancement, Support, and stand-alone client-server enterprises using Python. Exposure to CI/CD tools – Terraform, GitHub & GitLab for Continuous Integration & continuous deployment & strongly associated with using PyUnit & Pytest for Unit and System testing. Passionate about learning new technologies and solving complex problems using data-driven approaches. I am eager to join a collaborative team and contribute to innovative solutions using my expertise in Python, ML, NLP, and APIs. You can find my personal projects at https://github.com/ironknow.

Top skills

Back-End Web Development, Docker, Python (Programming Language), Flask, Django

Experience

AUGUST 2022 – PRESENT

Senior IT/DevOps Engineer | EZOps Cloud

- Developed innovative, highly scalable machine learning pipelines that handle data at a massive scale, generating optimized ads ranking by leveraging Apache Spark in EMR clusters, GPU clusters for model inference, and AWS infrastructure.
- Responsible for communication with customers helping them to transform their monolithic infrastructures into cloud-native ones following The Twelve-Factor App.
- Possessed scripting experience, utilizing languages such as Python or Bash to automate processes and enhance the efficiency of Elasticsearch configurations.
- Utilized Python scripting to automate routine tasks and enhance operational efficiency. Scripting played a pivotal role in optimizing data processes and streamlining data management tasks.
- Expertly navigated network protocols and security considerations, ensuring data integrity and protection during communication across networks.
- Implemented a notification system using Node.js and WebSocket technology, enabling users to receive real-time updates on critical events within the application.
- Leveraged React and Redux to build a dynamic and responsive user interface for a content management system, resulting in a 20% increase in user productivity.
- Utilized RESTful APIs to integrate third-party services, enhancing the application's functionality and user experience.
- Conducted regular testing and debugging to ensure high performance, security, and scalability of the web applications.
- Collaborated with cross-functional teams, including designers and product managers, to gather requirements and deliver solutions that meet client expectations.
- Implemented automated deployment processes using tools such as Docker and Jenkins, reducing deployment time by 30% and increasing overall efficiency.

March 2021 – august 2022
Full Stack Engineer | Nervana

- Worked within the Deep Learning Compiler group under Nervana, a startup acquired by Intel.
- Worked with a group of engineers by setting goals and driving projects to completion. Responsibilities included developing compiler features, making performance improvements, and implementing new tooling to measure performance.
- Spearheaded the curation of the server-side architecture, designing robust and scalable systems to handle large-scale data processing and storage requirements.
- Responsible for the estimation, implementation, and testing of features, supporting of the existed functionality.
- Developed server scripts and RESTful APIs using technologies such as Node.js, Express, and MongoDB, enabling seamless communication between the front-end and back-end systems.
- Collaborated closely with front-end engineers and UX designers, providing them with well-documented APIs and clear data structures, leading to an efficient development process and a cohesive user experience.
- Implemented advanced security measures, including encryption algorithms and authentication protocols, ensuring the protection of sensitive user data and safeguarding against potential security threats.
- Optimized server configurations for speed and stability, resulting in a 40% improvement in application performance and response time.
- Established reusable code libraries and implemented best practices, fostering code reusability and reducing development time for future projects.
- Designed and implemented data storage solutions, including database schema design, data migration, and data caching, resulting in efficient data retrieval and management.
- Conducted regular performance monitoring and troubleshooting to identify and resolve any server-related issues, ensuring the smooth functioning of the applications.
- Collaborated with research scientists to make model adjustments that maximized the potential of the given hardware, ensuring optimal performance in our deep learning applications.

june 2019 – december 2020
Senior React Developer | DigitlHaus Agency

DigitlHaus is an agile nearshore development company, working with clients to provide high performing software development, quality assurance, and businesses intelligence teams. In my role as a Senior/Lead software engineer, I provide lateral leadership within my team, making architectural decisions and fixing defects based on clear defect descriptions. I am responsible for documenting the code and technical design solutions, and creating builds of the software. Additionally, I share information about the developed software with interested parties and offer technical assistance where necessary. My work ensures the smooth functioning of our software and contributes to the overall success of our projects.

Technologies: JavaScript, TypeScript, React, GraphQL, Apollo, Node.js, TypeORM, Unit Testing, MySQL, MongoDB, Redis, Microservices Architecture, Apache Kafka, Event Sourcing, Database Backup/Restore, Docker, Configuration Management, GitHub

april 2018 – april 2019
Web Developer | Lounge Lizard

As a market leader in gambling and financial trading, Lounge Lizard is renowned for its cutting-edge technology and innovative software. I was lucky enough to be part of the poker team, where I helped develop and implement a range of promotional tools to enhance the player experience. These included pre and after wager bonuses, tournament tickets, inbox messages, table messages, and pop-ups to facilitate log-in and log-out processes. I'm proud of what the team achieved, and I still believe that Playtech Poker offers one of the best user experiences in the industry

Technologies: Python, Django, REST, Postman, API Documentation, PostgreSQL, Elasticsearch, ELK, Monitoring and Logging, Database Optimization, JavaScript, Vue.js, Cloudflare, GitHub, PR Review, Pre-Commit, Branch Protection

OCTOBER 2014 – APRIL 2018
Web Developer | Respect Studio

Respect Studio is a global provider of IT consulting and software development services to clients in the area of fintech, AI and blockchain. I successfully implemented software modifications and updates in accordance with detailed design requirements. These changes were completed using cutting-edge web technologies, resulting in a high-quality product that meets the required specifications

Technologies: Web Design, HTML, CSS, Bootstrap, AJAX, jQuery, JavaScript, Java, Spring Boot, Hibernate, Oracle, MySQL, Apache, Tomcat, JSON, JWT, Authentication, Runtime Protection

Education

AUGUST 2014
University of New Hampshire (UNH)

Bachelor of Engineering (B.E.), Computer and Systems Engineering

Skills

Full Stack Development, Project Management, Analytical Skills, Web Development, Technical Design, Test-Driven Development, Code Review, Communication, Problem Solving, Teamwork, Agile Methodologies, Object-Oriented Programming (OOP), Database Optimization, Source Control, CI/CD Automation, Cloud Computing, Problem Solving

Technical skills

Python, Flask, React, Angular, HTML5, CSS3, JavaScript, Kotlin/Java Android Studio, jQuery, SQL, AI – Artificial Intelligence, Tensorflow, Apache Kafka, Data Science, AWS – Amazon Web Services, Spark, Hadoop, Jupyter Notebook, Numpy, Pandas, Scikit-Learn, Tensorflow

Activities

Literature • Environmental conservation • Art • Yoga • Skiing • Travel