Drew Bodmer

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Education

Northeastern University, Khoury College of Computer Sciences Boston MA September 2017 – May 2022
Candidate for a Bachelor of Computer Science, Minors in Math, Physics

Honors: Northeastern Honors Program, Dean's List, Joel Goldenberg Memorial Scholarship
GPA: 3.64/4.0
Coursework: Software Engineering, Object-Oriented Design, Algorithms & Data Structures, Programming Languages, Theory of Computation

Skills

Languages: Python, TypeScript, Racket, Java, C, AMD64 & MIPS assembly, SQL
Technologies: Django, Flask, MongoDB, Docker, Kubernetes, Linux, React, Git, Bash, Jest, Pytest

Related Experience

Levee Industries Boston, MA July 2021 – Present
Software Engineer

- Operate effectively on a five-person team to tackle complex problems ranging from software architecture to investor relations and product development
- Re-architect backend object schemas for flexibility and scalability; implement a unit test suite with 100% coverage
- Configure auto-generated documentation using Swagger and Sphinx
- Construct custom statistical data generation scripts with thousands of data points
- Participate in product demonstrations to 50+ person healthcare and research enterprises

MORSE Corp. Cambridge, MA July 2020 – December 2020
Python Software Engineering Co-op

- Added new metrics to proprietary evaluation software to provide clients with better performance estimations
- Implemented pySpark data-wrangling scripts to provide essential dataset insights on millions of entries
- Elucidated popular computer vision metrics such as F1 score, mAP, and Track Fragmentation for clients through detailed documentation

Chewy Inc. Boston MA January 2019 - June 2019
Software Engineering Co-op

- Created a full-stack Spring web application in Java/JavaScript/HTML using Thymeleaf to provide real-time statuses of warehouse order-management systems supporting tens of thousands of orders daily
- Navigated a multi-million-line codebase to migrate features from a monolith into an AWS microservice
- Monitored project contributions during production releases to ensure correct behavior

Related Projects

Personal Website February 2022 - Present

- Implement a user-friendly website interface using React and UX principles
- Provide authentication and persistence using the Django REST Framework
- Store encrypted authentication, user roles, and text data using a SQLite database

Blockchain Database November 2021 – February 2022

- Implemented the Proof-of-Work protocol to create a blockchain database in Python
- Integrated network protocols to allow users to pass transactions and collect them into blocks
- Created a public-private key authentication system Using SHA256 to allow users to distinguish themselves

Optimized Memory Allocator March 2021 – March 2021

- Built an optimized memory allocator in C to replicate the behavior of malloc and free calls in C
- Utilized multithreading, thread-local storage, and buckets to make malloc and free calls in O(1) time
- Outpaced the system allocator when working with linked-lists and vectors