Eric Detjen

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Education

The University of Maryland, College Park, MD   Expected May 2024
Bachelor of Science: **Computer Science (Machine Learning Specialization)**

Technologies/Programming Languages

- Proficient with C, C++, Java, Python, JavaScript, React, Node, Express, Swift, SQL, MongoDB, GraphQL, LLMs, NLP, Langchain, Pinecone, AWS, GCP, Azure, Agile development, Scrum, Git, Unix, and REST APIs.

Experience

Publicis Sapient - *Consumer Products/Transportation*   Boston, MA
Software Engineering Intern   June 2023 to Current
- Trained an Azure ML NLP model (NER) to categorize **5M+ data points**, increasing data searchability by **>50%**.
- Developed a tailored chatbot using **Langchain**, **Pinecone**, and **OpenAI**, leading to an est. **40%** cut in support costs.
- Implemented MongoDB with GraphQL, reducing data over-fetching by **70%** for **1M+** users and **5M+** data points.
- Boosted search speed by **45%** using AWS Elasticsearch and cut operational costs by **30%** with Lambda and ECS.

DBA Sports Group   New York, NY
Lead Developer, Founder   May 2022 to May 2023
- Oversaw the ideation, design, development, and QA of a multi-featured web application for **100,000+** monthly users (**3,400+ paid**). (Live at devinsbookie.com)
- Sourced then led a scrum team of **5**. Personally wrote **~30%** of the codebase while overseeing all work.
- Implemented CI/CD practices, reducing code integration time by **35%** and decreasing system downtime by **30%**.
- Managed the website's SEO, advertising, and SMM leading to a **30% growth** to **150,000+ followers**.

Open Exchange, Inc,   Boston, MA
Senior Software Integrations Developer   May 2021 to May 2022
- Reduced delivery costs by **90%** by automating customer order/delivery processes via Python using REST APIs.
- Spearheaded the purchase of a **$400,000** enterprise SaaS platform following a successful proposal to company executives, subsequently leading its integration and management for over **1500 internal users**.
- Hired and managed a team of **3** to help handle the administration of growing workflows and responsibilities.
Software Engineering Intern   May 2020 to May 2022
- Reduced QA runtime by **30%** by overhauling testing infrastructure and implementing Selenium automation.
- Improved test coverage by **15%** by creating quality assurance smoke tests using Java, and Selenide CSS locators.
- Eliminated the need for **100+** unnecessary functions by eliminating redundancy and refactoring the codebase.

Fast Markets RISI   Boston, MA
Data Engineering Intern   July 2019 to August 2019
- Created Python script to enrich customer profiles with **70% more data**, by scraping Salesforce and DB Hoovers.

Projects and Research

Class Schedule Enhancer (View live here**)**   January 2020 to April 2020
- Developed a script to web-scrape **1000 +** professor rating pages to provide class data to users choosing classes.
- Manipulated the DOM of **500+** monthly users' pages to show the professor/class rating in line with the class list.

Betting Line Optimizer (Live at devinsbookie.com/line-calculator)   August 2022 to October 2023
- Developed a sports betting tool allowing users to take advantage of more beneficial bets not publicly offered.
- Reduces the casino's advantage by up to **10%** by combining multiple bets to create a more optimal line.
- Optimized algorithm and UI based on polling feedback from the tool's **10,000+ users**.

Google Calendar Monday.com Extension (Read more here**)**   September 2020 to January 2021
- Developed a **MERN stack** application that allows users to seamlessly integrate their existing Monday.com boards with Google Calendar, enabling managers to view employees' schedules and book meetings easily.
- Built and managed a globally distributed team under a Scrum framework, achieving project milestones efficiently.
- Presented a finished product to company executives and closed a **$10,000 +** deal licensing our software.

Atmospheric Trends Research   October 2018 to May 2019
- Researched correlations between satellites' data and ground observations to optimize precipitation estimations.
- Dynamically web scraped over **5000 NASA records** and student data using BeautifulSoup and Selenium.