

Alex Eby

Software Engineer II

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Work Experience

InductiveHealth – Software Engineer II

Jan 2022 – Present

Tech Stack: Java, PostgreSQL, Elasticsearch, React, TypeScript, Play Framework, Docker

- Served as a key backend developer for the company's flagship product – a technology-focused and performant disease-tracking platform – resulting in product sales and pending launches across 17 states.
- Developed a cross-datasource search feature using Elasticsearch that allowed epidemiologists to quickly locate and access patient records across multiple applications from a unified interface.
- Designed and created a new, centralized SSO platform, allowing epidemiologists to efficiently access their software needed to track cases and manage trending diseases.
- Reimagined the reporting process for epidemiologists, removing excess email notifications by way of digitized insights, allowing them to proactively evaluate lab results and discrepancies.
- Took ownership of a legacy system, understanding its architecture and codebase and delivering critical feature requests for the business within a two-month timeframe.

Conduent – Software Engineer I

Apr 2018 – Jan 2022

Tech Stack: Struts, Java, SQL Server, Jenkins

- Configured a freemium version of the product in response to COVID-19, allowing counties without sufficient funds the ability to report COVID-19 cases to their state agencies.
- Created an extracurricular, internal deployment tool, increasing deployment speed and status awareness, and ultimately adopted by the entire engineering organization.
- Managed system maintenance and upgrades for 22 clients, ensuring each client had the latest features without disruptions to their working environment.

Graduate School Experience

Specialization Classes – Artificial Intelligence

Topics: Knowledge-Based AI, AI Ethics and Society

Language: Python

- Developed an AI Agent that could detect a series of images, determine the patterns within them, and select a final image completing the pattern.
- Researched and documented stereotypes in Stable Diffusion's image generation model, creating a method to mitigate its biases.
- Created an agent that used probabilistic modeling to determine the words signed in an ASL sequence due to variance in gesture signing.
- Designed predictive models that excluded personal information from loan approval software to limit the amount of bias introduced into the process.

Education

- **Georgia Institute of Technology**, M.S. in Computer Science
Specialization in Interactive Intelligence (Jan 2022 – Jul 2024)
- **University of Arkansas**, B.S. in Mechanical Engineering
Minor in Computer Science (Aug 2013 – Dec 2017)