JOSEF KLAFKA

Seattle, WA

608-320-8136 ⋄ jlklafka@gmail.com

WORK EXPERIENCE

Software Development Engineer, Alexa AI Privacy *February 2022 - Present*
Amazon.com, Inc

- Automated processing millions of potential privacy violations per month within Alexa's data ecosystem
- Built and maintained new microservices using CI/CD pipelines and AWS technologies
- Performed week-long 24-hour oncall rotation to fix bugs and address user concerns each month

Software Developer *August 2020 - February 2022*
Epic Systems

- Led full-stack development projects for clinical search software with 10 million monthly active users
- Designed over 20 new customer-facing and backend features within agile development processes
- Piloted initiatives including mobile app expansion, recommended searches, and metric tracking

Research Associate *July 2018 - July 2020*
Carnegie Mellon University

- Trained machine learning models of language using NLP techniques and 100 GB-size datasets
- Conducted over 20 online and in-person studies across thousands of diverse adult and child participants
- Mentored and trained two dozen new research assistants and graduate students

EDUCATION

The University of Chicago *June 2018*
BS in Mathematics and BA in Linguistics with honors GPA: 3.82/4.00

SELECTED PROJECTS

Automate privacy policy evaluation and incident triage in Alexa

- Constructed developer-facing client to process over 100 million data points
- Created microservice to add responsible party information to every suspected policy violation in-process
- Utilized serverless distributed system architecture with infrastructure as code

Construct usage data collection and storage pipeline in Epic search

- Created API for logging data from autocomplete and search results a user saw for a search
- Ensured every logging event added no additional latency for users
- Added overnight data aggregation process which reduced data storage needs by 66% while allowing 3x longer storage

SKILLS

Languages	Java, Python, C#, TypeScript, SQL, React, C, HTML/SCSS, R
AWS Technologies	Lambda, DynamoDB, S3, Kinesis, Athena, ElastiCache, ECS, CDK
Technologies	Docker, Git, REST APIs, Redis, Unix/Linux, RPC
Best practices	Object-oriented programming, unit testing, infrastructure as code
Machine learning	Neural networks, natural language processing, recommendation systems