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Ani Chandrashekhar

Backend Software Engineer + Computational Linguist

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EDUCATION

Bachelor of Science in Computer Science and Linguistics

August 2015 – December 2018

University of Illinois at Urbana-Champaign

LANGUAGES

Programming Languages: Python, GoLang, Java, OCaml, GDScript

Frameworks: NLTK, Spark, Hadoop, Flask

Languages (B2 proficiency or above): German, Spanish, Hindustani

DEVELOPMENT EXPERIENCE

Unity Technologies

March 2020 – May 2022

Data Privacy Engineer

- Acted as a liaison for all engineering teams on Unity-Ads, guiding them to write privacy-first code and coordinated all escalation efforts across teams in the case of a legal incident
- Investigated potential user privacy violations and security threats for over **2.5 billion/milliard** daily clients
- Developed a privacy-agnostic library for Unity-Technologies to satisfy present and future privacy requirements
- Engineered automation pipeline that generated legal audits and compliance data for lawyers, and service metrics for engineers

Arity

April 2019 – March 2020

Distributed Backend Engineer

- Rewrote services from daily batch jobs in PySpark to low-overhead stream processing jobs using Flink, resulting in a **~40% reduction** in memory usage
- Deployed and monitored multiple cloud applications and created Grafana dashboards with alert and escalation policies
- Wrote performant code using Apache Spark, Cassandra, S3, and Kafka to process 37 million records a day
- Created internal APIs and batch services in Go, Scala and Python to retrieve large DataFrames to/from Cassandra, Hadoop, AWS S3, and PostGres

AbbVie Pharmaceuticals

November 2017 - December 2018

NLP/Data Science Contractor

- Built database conversion pipeline in Python that normalized millions of pharmaceutical records automatically
- Used dynamic programming and hashing to reduce normalization time from **~30 minutes to 10 seconds** per write
- Optimized Node.js/Express.js app using worker threads to handle large amounts of reads and writes concurrently
- Implemented privacy protocols to serve sensitive clinical data to internal clients

The National Endowment for the Humanities

August 2017– May 2018

NLP/ML Lead Student Engineer

- Lead team of students and professors to develop supervised learning model (Naïve Bayes/Random Forest/CounterVec/TF-IDF) in Python and Wolfram to develop insights on millions of archival records of some of the seminal researchers in cybernetics, including John von Neumann, Heinz von Förster, and Norbert Wiener
- Coordinated team efforts with **MIT, Wolfram, the British Library, and the American Philosophical Society** to extract (OCR), tokenize, lemmatize, and then model large amounts of unstructured data across three decades in Python

AWARDS

- **Best medical software** (website eye tracking for paralysis) created during ArchHacks2018 from *Epic*
- **Best community - oriented software** (nutrition) in University of Illinois HackCulture Hackathon 2016
- **Top Undergraduate Research in Germanistic**, recipient of the Robert and Elanor Flinn Scholarship 2016