Ananya Tadigadapa

Education

Northeastern University, Boston, MA — May 2025
Candidate for a Bachelor of Science in **Computer Engineering and Computer Science** — **GPA: 3.93**
Minors in Mathematics & Music Performance — Honors Program | Dean's List
  • Coursework: Machine Learning, Mobile Robotics, Mobile App Development, Object Oriented Design, Algorithms & Data, Computer Systems, Digital Design, Networks, Real Analysis, Linear Systems

Technical Skills

Languages:
  TypeScript, Scala, Java, Python, C++, Swift, C
Frameworks/Tools:
  GraphQL, SQL, HTML, CSS, Docker, React, Node

Cloud Technologies:
  AWS (S3, Lambdas, Step Functions), Kubernetes
Software:
  Git, Agile, Linux, Jenkins (CI/CD), ROS 1, Akka

Relevant Experience

Tesla | *Distributed Systems Energy Intern* — May – Present
  • Designed a new API exposing file history for remote viewing of IoT device settings: Presented and refined protobuf contracts for team review, considered contexts and future applications, and planned required tasks
  • Implemented API through the stack by querying multiple sources, aggregating and transforming data in Scala, displaying data with GraphQL and React on a fleetwide monitoring tool, and meeting client needs & deadlines
  • Expanded API impact by connecting and querying S3 with Regex matching and deprecating legacy routes
  • Created multiple design options for delivering data to a new Mobile App feature; presented tradeoffs to org directors; implemented API contract & handlers and stood up a Kafka stream to a database to capture events
  • Improved monitoring visibility for fleet management of 48,000 wall connectors, collaborating across teams
  • Ensured successful app deployments using Splunk and Grafana for troubleshooting and end-to-end testing

Wood Mackenzie | *Software Developer Co-op* — July – December 2023
  • Spearheaded story criteria templating, increased development efficiency and eliminated info delays in sprints
  • Expanded GraphQL APIs and TypeScript configurations for React components, adding new widgets and filtering options while maintaining reusability and coding best practices, collaborated with product and design
  • Diagnosed and ran AWS lambdas and Step Functions for ETL processes to ClickHouse and OpenSearch
  • Hosted developer department-wide meetings resulting in action items to address platform improvements

Publications & Projects

Personal Website | *React, JavaScript, HTML, CSS, GitHub Pages* — December 2023

"The Myowearable Sleeve: A Surface Electromyography Injury Prevention Device" — June 2022
  • Engineered & prototyped a muscle monitor with Arduino, Python and Bluetooth for audio and GUI feedback
  • Presented at the American Society of Engineering Education **(ASEE) National Convention**

"Smart Containers for Food Storage in Refrigerators", published in **IEEE Potentials** — May 2022

Leadership & Activities

Tau Beta Pi Engineering Honors Society MA Epsilon Chapter President — April 2024 – Present
Northeastern University Symphony Orchestra President — June 2023 – Present
Dialogue of Civilizations: The Mathematical Heritage of Hungary — July – August 2022

Piano (2006 - present) | Flute (2015 - present) | Composition | Songwriting | Low-Waste Baking