

BURAK YESIL

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EDUCATION

Stevens Institute of Technology

December 2023

Bachelor of Science in Computer Science

GPA: 3.81/4.0

Relevant Courses: Deep Learning, Fundamentals of Machine Learning, Natural Language Processing, Operating Systems, Concurrent Programming, Algorithms, Data Structures, Computer Architecture, Systems Programming, Web Programming, Database Management Systems, Linear Algebra, Discrete Structures, Theory of Computation, Agile Methods, DevOps, Object Oriented Programming, Predictive Modeling, Statistical Analysis, MLOps

SKILLS

Languages: Python, Java, C, C++, JavaScript, Go, ReactJS, OCaml, SQL, Erlang, Groovy, HTML/CSS

Technologies/Tools: PyTorch, TensorFlow, NumPy, Pandas, Keras, Sklearn, Jupyter notebooks, Google Colab, Kaggle, Hyperparameter Tuning, S3, MLflow, Databricks, Glue, Lambda, SageMaker, Spark, Matplotlib, LangChain, Linux, Git, GDB, UNIX, Docker, Node.js, PostgreSQL, Hyperledger, AWS, Postman, MongoDB, MeteorJS, Flask, REST API, Distributed Systems

EXPERIENCE

ClinicalMind | Machine Learning Engineering Intern (MLOps)

October 2022 – May 2023

- Designed and implemented the backend architecture for a medical market research tool with a focus on **lexicon analysis**.
- Applied **transfer learning** techniques using the **BERT model** to enhance **natural language processing (NLP)** capabilities.
- Developed and maintained a robust API, ensuring seamless integration and data exchange for the research tool.

Citizens Bank | Machine Learning and Blockchain Engineer Intern

June 2022 - October 2022

- Designed and implemented a multi-organizational **private blockchain distributed systems network** and **custom JavaScript smart contracts** using **Hyperledger** and **Go** on **Red Hat Linux**, leveraging **gRPC** for communication between distinct **EC2 instances** joining separate channels and invoking multiple contracts.
- Collaborated with senior leadership to engineer an **AI-powered chatbot** for Citizens Bank, streamlining customer service and user engagement using **LLMs**

Stevens Institute of Artificial Intelligence | Selected AIRS AI Program Research Fellow

June 2021 - May 2023

- Built a podcast platform leveraging the **Transformers Architecture** to enhance user experience through the visualization of content, and showcased research findings to the Stevens CS faculty.
- Trained and deployed three NLP models in **Python** and **TensorFlow** for platform's backend, utilizing **transfer learning** and **GCP**.

PROJECTS

Podsee | Founder

June 2021 – May 2023

- Architected and developed an **API** using **Node.js** and **Python**, transforming audio inputs into dynamic video outputs.
- Implemented **multithreading** techniques to speed up processing times by parallelizing tasks and minimizing redundant computations.
- Leveraged **C++** for performance-critical components.
- Employed **Natural Language Processing** and the **BERT model** to identify audio cues and generate visual pop-ups within videos.
- Earned esteemed recognitions such as the **AIRS Fellowship Award**, **Thomas H. Scholl Award**, and **Mission 50 Startup Prize** to fund and highlight the project's promise.

Cabal Chat

November 2023

- Developed an innovative crypto wallet manager chatbot, 'Cabal Chat', leveraging Web3 technologies such as **LangChain**, **Uniswap**, and **Large Language Models** to facilitate user interactions with token markets and transactions through intuitive chat-based prompts.
- Awarded at the **ETHGlobal Web3 Hackathon** for exceptional integration of **decentralized finance tools**, recognized by industry leaders for contributing to the advancement of **blockchain** usability