Damir Temir

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Education

University of Illinois Springfield August 2019 - May 2023
B.Sc. in Computer Science, GPA: 4.0/4.0 *Springfield, IL*

- Relevant Coursework: Programming Concepts, Programming Languages, Data Structures & Algorithms, Intro to Neural Networks, Intro to Operating Systems, Applied Statistics, Calculus 2, Linear Algebra
- Activities: Capital Honors Program, Peer Mentor for First-Year Students, Peer Tutor in Computer Science
- Achievements: Full-Ride Scholarship Recipient, Dean's List Honoree, Outstanding Sophomore Award

Technical Skills

Languages: Python, SQL, JavaScript, Java, Go
Frameworks: PyTorch, Hugging Face, Flask, Django, React
Developer Tools: Linux, Git, GitHub Actions, Docker, BentoML, Heroku
Libraries: NumPy, pandas, Matplotlib, scikit-learn

Experience

Machine Learning Intern May 2022 - August 2022
Northwestern Medicine *Chicago, IL*

- Integrated Transformer-based NLP models to patient ECG-data, generating useful, clinically correct analyses
- Assembled React Web Interfaces for clinicians interacting with NLP models
- Built out internal data workflows for Power BI dashboard generation across business infrastructure metrics

Software Engineering Fellow January 2022 – April 2022
Major League Hacking *Remote*

- Contributed to Facebook Research LabGraph, building real-time messaging monitor for graph benchmarking
- Supported CI/CD using GitHub Actions and maintained high quality of code with automated testing

Open Source Fellow September 2021 – December 2021
Major League Hacking *Remote*

- Supported PyCaret & LightGBM in an open-source project BentoML to deploy ML models in production
- Used data-validation tools for deployment schema verification, supporting the Bento Deployment Tool

Research Assistant June 2021 – August 2021
Stanford University *Stanford, CA*

- Developed a statistical interface to control amino acids distributions produced by a Convolutional Neural Network
- Updated the *Protein Design Algorithm* using a Graph Neural Network speeding sequence initialization by 300%
- Documented and presented research findings at the Protein Design Conference, *Summer RosettaCON 2021*

Projects

Facebook LabGraph Monitor | *TypeScript, Node.js, Python, GitHub Actions, Git* January 2022 - April 2022

- Equipped LabGraph with an extension to visualize data streaming between graphs and nodes
- Serialized graph topology along with Messages, Streams, and Groups
- Setup Sphinx Documentation that auto-deploys on GitHub Pages with each commit using GitHub Actions

Fellowship Prediction | *Python, BentoML, Docker, Flask, React, Git* September 2021

- Constructed a web tool to analyze GitHub Profiles of aspiring MLH Fellows to gain insights into their statistics
- Mined data on 600 GitHub users to deliver a BentoML Prediction Service in production on Heroku with Docker
- Collaborated with a team, winning the Fellowship Orientation Hackathon and getting 49 stars on GitHub

Resfile Interface | *Python, PyTorch, NumPy, PyRosetta, Git* June 2021 - September 2021

- Built a statistical interface to modify the logits in PyTorch tensors under the Pseudo-Log-Likelihood (PLL) mathematical model to produce *internal hydrogen bonding networks*
- Substituted the Baseline Convolutional Neural Network Model with a Graph Neural Network, increasing the time efficiency of initializing the starting sequence for protein design by 300%