Joseph Anthony Bosco IV

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Education

Washington and Lee University - Class of 2024   Lexington, VA
Bachelor of the Sciences, Computer Science Major
Overall GPA 3.89 | Major GPA: 3.96

Relevant Coursework: Artificial Intelligence, Databases, Algorithm Analysis, Advanced Topics in Robotics, Software Development

Extracurricular Activities
- Varsity Wrestling, Academic All-American
- Health and Safety Officer, Pi Kappa Alpha Fraternity, Pi Chapter
- Chapter Organizer, Queer in AI, affinity group of oSTEM
  - Established chapter at Washington and Lee
  - Advise LGBTQ+ undergraduates on AI and Computer Science career resources

Computer Skills and Recent Projects

Programming Languages & Skills
- Highly Proficient: Python
- Proficient: Java, SQL
- Experienced: C, React, Haskell
- Skilled: LaTeX, Git, Linux, AWS, Google Cloud, Excel, Powerpoint

Kaggle Competition   Nov. 2023
- Developed deep learning model for Kaggle.com titanic competition using PyTorch
- Classified target-less data entries with 78% accuracy, finishing in top 25% on competition leaderboard

Personal Website   Feb. 2023
- Designed personal website using HTML and CSS
- Implemented request handling and data collection with SQLite and Python Flask

OpenAI Gym   May, 2022
- Implemented reinforcement learning for OpenAI's Cart Pole and Pendulum environments
- Solved both environments with 1,000 episodes of training to reach maximum reward threshold

Mathematical Image Generator   Oct.-Dec. 2021
- Programmed application in Java to generate images from RGB triples from mathematical expressions
- Collaborated with five peers to implement UI, expression tree and parser: approximately 2,000 lines of code

Experience

Inkwell eBook Platform   Jul.-Sep. 2023
Software Developer
- Developed the backend for Inkwell's initial website
  - Designed database server using Postgres for storing patron and publisher information
  - Handled HTML requests and served database to frontend using Django
  - Maintained Linux host on remote machine via SSH
Developer Team Lead
- Directed weekly remote meetings with team of nine developers
  - Reviewed team contributions and planned tasks for upcoming week
- Delegated responsibilities to best suit each developer's skill set
- Onboarded and guided new developers through initializing development environment
- Prioritized requests from project manager and motivated team to meet deadlines

Washington and Lee University, Computer Science Department
Teaching Assistant   Sep. 2021-Apr. 2022
- CSCI-111: Introduction to Programming in Python
- CSCI-112: Advanced Introduction to Programming and Data Structures
Summer Research Scholar working under Computer Science Professor Taha Khan   Jun.-Sep. 2022
- Surveyed options for how to handle digital footprints when an internet user dies
- Established research base of 95 digital estate management services and summarized prior academic work
- Drafted digital survey, qualitative interview and request for IRB approval
Independent Research under Neuroscience Professor Natalia Toporikova   Jan.-Apr. 2023
- Analyzed laboratory data to make inferences on spider mortality
- Parsed 10,080-row .CSV spreadsheets using Pandas dataframes
- Developed neural net classifier using PyTorch and NumPy with 96% classification accuracy, 0% false negatives