Dillon Scott

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Boston, MA | Available May 2023 – December 2023 | he/him/his

Education

Northeastern University | Boston, MA   September 2020 – Present
- Class of 2024, B.S. Computer Science and Biology, Honors Program, Dean's List
- GPA 3.91 / 4.0
- Coursework: Object-Oriented Design, Algorithms and Data, Database Design, Theory of Computation, Genetics and Molecular Biology, Biology Project Lab, Biochemistry, Advanced Genomics
- Extracurriculars: Sandbox at Northeastern, Husky Blood Initiative

Northwestern Lehigh High School | New Tripoli, PA   August 2016 – May 2020
- Class of 2020, Salutatorian
- National Merit Finalist, Science Olympiad State Medalist, District XI Swimming Medalist, MathWorks Modeling Challenge Triage Survivor, Dwight D. Eisenhower Award for Leadership and Service

Experience

Computational Biologist, *Immunitas Therapeutics* | Waltham, MA   July 2022 – Present
- Developed Monkeybread, a Python package to investigate cell proximity in single-cell spatial transcriptomic data
- Composed a machine learning pipeline with Snakemake and Docker to classify cells based on gene expression
- Scaffolded data analyses in Jupyter Notebooks utilized to narrow down target genes for novel cancer drugs

Head of Developer Experience, *Sandbox at Northeastern* | Boston, MA   August 2022 – Present
- Coordinated and hosted onboarding workshops to introduce new developers to technical tools and languages
- Conceived an internal "wiki" to preserve knowledge transfer of ~50 frameworks and standardize project processes

Project Lead, *Sandbox at Northeastern* | Boston, MA   January 2022 – September 2022
- Directed development on a project enabling parents and students to report over 100 educational rights violations
- Arranged meetings with client, developers, and designers to verify quality and advancement of project
- Reviewed pull requests and designs to guarantee flexibility, efficiency, and accuracy of product
- Established goals and assigned members to tickets based on individualized expertise and personal preference

Teaching Assistant, *Khoury College of Computer Sciences* | Boston, MA   January 2022 – June 2022
- Graded assignments, conducted labs/recitations, and held office hours for 150+ students in CS2510 and CS3000

Projects

Monkeybread, *Immunitas Therapeutics* | Waltham, MA   July 2022 – Present
- Created a toolkit consisting of over 15 highly abstracted functions for exploring spatial transcriptomic datasets
- Integrated automated testing, documentation, and tutorial notebooks to ensure quality and increase accessibility
- Utilized: Python, Jupyter Notebooks, Git, Google Cloud

EdLaw, *Sandbox at Northeastern* | Boston, MA   January 2022 – September 2022
- Built a full stack web application allowing users to easily file legally worded complaints against the Mass DOE
- Devised user authentication system, allowing users to save progress and come back at a later time
- Enhanced user interface, enabling mobile users to access the tool as well as navigate between questions smoothly
- Designed an automated file parser allowing for quick updates to question wording and modifications to laws
- Utilized: TypeScript, React, MongoDB, Next.js, CSS

Image Editor | Boston, MA   May 2021 – June 2021
- Constructed a downloadable program allowing users to edit, save, and load images via GUI or command-line
- Implemented over 25 distinct commands and filters including blur, sharpen, sepia, grayscale, and mosaic
- Utilized: Java, Swing

Technical Knowledge

Languages: TypeScript | Python | Java | HTML | CSS | R | SQL | Racket   **Frameworks/Tools:** React | Docker | GCP