Colin McGovern

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WORK EXPERIENCE

UNIVERSITY OF PENNSYLVANIA   *November 2021- January 2023*
Philadelphia, Pennsylvania
Software Developer B
- ❖ Analyzed and conducted academic research on single-cell transcriptomic and epigenomic data from primary human T-cell Acute Lymphoblastic Leukemia samples
  - ➢ Utilized many single-cell genomic analysis tools and algorithms such as Seurat, SingleR, scSorter, DESeq2, TooManyCells, CellRank, AUCell, scMerge, Signac, snapATAC, and CICERO
  - ➢ Analysis performed with R, Python, and BASH
- ❖ Designed and developed front-end and back-end code for PANC-DB, a data portal which hosts data from assays performed on human pancreas samples with diabetes
  - ➢ I led the overhaul project titled "PANC-DB 2.0" that made the website significantly more intuitive and user-friendly
  - ➢ React (Javascript), Flask (Python), CSS, and Github for version control

SEPAX TECHNOLOGIES INC   *October 2018 - March 2021*
Newark, Delaware
Lead Software Engineer
- ❖ Responsible for all critical information technology including all computers, software, networks, and servers.
- ❖ Led a team of junior software engineers
- ❖ Developed vital software with our equipment development team
  - ➢ The sole developer of a peak analysis algorithm which uses statistical inferencing to turn sample data into deconvoluted peaks. This algorithm is the heart of Sepax's GlyHb-100 lab machine.
  - ➢ C, C++, and Qt
- ❖ Added features and fixing bugs on Sepax's intranet and website
  - ➢ Implemented changes that have resulted in more secure, reliable, and efficient systems for Sepax's employees and clients
  - ➢ LAMP stack: Linux, Apache, MySQL, and PHP

SEPAX TECHNOLOGIES INC   *May 2017 - February 2018*
Newark, Delaware
Assistant Software Engineer
- ❖ Created features features and fixed bugs on company intranet and website
  - ➢ LAMP stack: Linux, Apache, Mysql, PHP
- ❖ Repaired computers, managed servers, and solved networking problems

EDUCATION

GEORGIA TECH   *January 2023 - Present*
Newark, Delaware
- ❖ Online Masters in Computer Science

UNIVERSITY OF DELAWARE   *August 2014 - May 2018*
Newark, Delaware
- ❖ Bachelor of Science in Computer Science
- ❖ Minor in Cybersecurity