Rashid Osman

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EDUCATION

Vanderbilt University — Nashville, TN
Bachelors of Arts in Molecular and Cellular Biology — *Aug. 2022 – May 2026 (Expected)*

EXPERIENCE

Galen Health — Houston, TX
Software Engineer (Full Time) — *Aug 2020 - Feb 2021*

- **Galen Portal**: Project was developed to connect hundreds of hospitals, care providers, physicians, and patients through a unified tenant system. Web application leveraged Material UI and Google Angular, with a Java based backend. Security functions were crafted to ensure compliance with legal medical data encryption requirements. Core components consisted of data communication between different tenant classes (ie. hospital to health device sector), and data visualization component of health records and trends.
- **Mock Testing Platform**: Test library created for Galen software suite, to test authentication, data visualization, information transfer. This allows testing without impact towards existing patient data or software.
- **Documentation Wiki**: Structured technical documentation collection created for software developed, using Atlassian wiki. Examples included for all modules for ease of replication and understanding for future developers joining project.

Arbitrum — Houston, TX
Full-Stack Engineer (Full Time) — *Aug 2021 - Dec 2021*

- **Blockchain Contracts**: Platforms to facilitate currency exchange between the Arbitrum platform. Users are able to easily bridge in outside blockchain currencies.
- **Finance Dashboards**: Dashboards and statistical tools for users to manage portfolio distributions, and view public community financial records.

MD Anderson Cancer Center — Houston, TX
Research Intern (Part Time) — *Summer 2019*

- **Immunotherapy Research**: "Population Trends In Cancer Immunotherapy Trials", Using trend analyzation to identify potential links relating to the variability of immunotherapy effectiveness. The machine model was developed in the modern Go programming language, chosen for this study for its minimalism, execution speed, simplicity, and readability. The results collected through the use of the clinical trial simulation and the analysis of correlations - between patient traits and treatment outcomes - provided key insights into possible trends in cancer immunotherapy trials. Furthermore, through the introduction of chemotherapy use in the clinical trial simulation, results were gathered that provided insights into statistical comparisons outlining the efficacy of various cancer treatments in comparison to immunotherapy. Data and codebase published to an open source repository.
- **Publication Editing**: Manuscript formatting and editing. Cell culture grid formatting for correct PPI and image dimensions, chart and data visualization creation, publication submissions through American Association Cancer Research (AACR) Platform. Slide presentations on drafted research including figures and figure legends for internal team presentations.

TECHNICAL SKILLS

- **Languages**: Javascript, Typescript, Golang, SQL, R   **Technologies**: React, Node, Serverless, Microservices

- **Research**: Graphpad Prism, Adobe Suite, Zotero, LaTeX, Excel