Keshav Kotteswaran

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Experience

Project Manager | **Epic Systems** | Madison, WI | September 2024-August 2025
- Managed 18 IT analysts across four teams to support Beebe Healthcare's EHR implementation
- Guided 26 clinical leaders through 300+ workflow optimization decisions for surgery, anesthesia, and perfusion
- Demoed client-facing product presentations to clinical stakeholders, facilitating consensus on key design decisions
- Co-led a committee of 30+ anesthesiologists to finalize product optimization opportunities through market analysis
- Collaborated with 5 cross-functional teams to finalize hybrid workflows, reducing average surgery time by 3 minutes
- Utilized agile and waterfall methodologies to manage project and sprint timelines

Systems Engineering Design Verification Co-op | **Insulet Corporation** | Acton, MA | July 2023-December 2023
- Executed QA tests for 50+ Omnipod performance specifications, ensuring product reliability and FDA compliance
- Led end-to-end systems integration testing for device-to-cloud and cloud-to-cloud data transfer protocols
- Directed a capacity optimization project that streamlined resource usage across 70+ test specifications
- Investigated Omnipod test anomalies via root cause analysis and implemented corrective design changes

Analytical Development Co-op | **Acorda Therapeutics** | Waltham, MA | July 2022-December 2022
- Conducted market validation studies on powder stability and compatibility for a pharmaceutical launch
- Assessed biocompatibility of spray-dried drug formulations for a MannKind–Acorda collaboration
- Followed GMP and GDP guidelines in lab setting for all test runs including ACI-8 analysis
- Managed analytical testing of a patented drug portfolio using UPLC/HPLC, characterizing formulation properties to guide development decisions

DBS Intern | **CSC** | Wilmington, DE | June 2020-September 2020
- Created a clean reference database of international ticker suffixes (e.g., .US, .IN, .CA, .HK), standardized symbol formats, and wrote a small AWS Lambda job to validate/ingest CSVs to storage (S3) for easy lookup
- Mapped how database services connect in AWS (Lambda → S3 → CloudWatch)

Projects

Capstone: Modifying NIH 3T3 Cells | *Northeastern University* | Boston, MA | May 2023-April 2024
- Developed a protocol for modifying and testing NIH 3T3 fibroblasts to optimize fibroblast migration for wound healing
- Designed and executed comprehensive experimental framework using PDGFR gene transfection and chemotactic analysis, applying statistical modeling to validate 25% improvement in cellular mobility

Cornerstone Engineering Project | *Northeastern University* | Boston, MA | September 2021-June 2022
- Constructed a hands-free water fountain modifier using Arduino sensors and SolidWorks 3D-printed components
- Conducted prototyping and testing cycles to refine sensor calibration, water flow efficiency, and component durability
- Collaborated in a team of 4 to manage project timeline, divide tasks, and integrate hardware/software components

Skills

Technical Tools: Hyperspace, Excel Modeling, Tableau, Python, MATLAB, SolidWorks, PowerPoint, AWS

Healthcare: Quality Assurance Testing, Verification & Validation, ISO Standards, Biocompatibility Testing, UPLC, Bioimaging, Technology Consulting

Education

M.S. in Bioengineering | ***Northeastern University*** | Boston, MA | **GPA: 3.76/4.00** | December 2025
Concentration in Biomedical Devices and Bioimaging · Nanomedicine Graduate Certificate

B.S. in Bioengineering | ***Northeastern University*** | Boston, MA | **GPA: 3.56/4.00** | May 2024
Concentration in Biomedical Devices and Bioimaging · Minor in Business Administration