

TIMOTHY JAMES BARRETT

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EDUCATION

Stevens Institute of Technology, Hoboken, NJ

September 2016 – May 2020

Bachelor of Science, Computer Science

GPA: 3.095

Accolades: Edwin A. Stevens Scholarship

Relevant Coursework: Data Structures, Algorithms, Automata and Computation, Web Development I+II, Team Programming, Concurrent Programming, Database Management Systems, Agile Methods for Software Development, Human-Computer Interaction

TECHNICAL SKILLS

Languages Python, JavaScript, SQL, XSLT, XPath, Java, Kotlin, C++, C

Technologies Node.js, Express, Pandas, Scikit-learn, Tensorflow, Seaborn, Plotly, LaTeX

Tools SQL Server Management Studio, Android Studio, Git, TortoiseSVN

Databases MySQL, MongoDB

PROJECTS

jamesbarrett.us

Personal website

- Designed a responsive single-page application in React for portfolio projects and contact information utilizing the React-Router library.

Agent-based Model of Infectious Disease

Group final project for course in Quantitative Biology

- Designed a simulation in Python of autonomous interactions within a human population to closely model the 2014 West Africa ebola outbreak.
- Implemented CSV exporting to compare datasets with variation in rates of infection, vaccination, density, and agent movement.

WORK EXPERIENCE

Allvue Systems

July 2020 – Present

Application Engineer, Operations

New York, NY

- Application engineer for front-to-back office credit solution with international client base.
- Created SQL scripts to repair and prevent future portfolio data discrepancies with defensive programming.
- Utilized XPath and Transact-SQL debugging queries to identify client and server errors in product code, XML response/request data and XSLTs.
- Mapped and documented root cause assessments to decrease product defects.
- Led daily stand ups to prioritize towards high severity implementation requests and fixes.
- Advised and consulted clients on programming and architecture best practices.

New Jersey Innovation Institute

June 2019 – August 2019

Project Assistant and Consultant, Innovation Services

Newark, NJ

- Developed and co-designed a solutions program to identify, incubate, and scale in-house innovation, reducing costs on physician operations within Hackensack Meridian Health's hospital network.
- Conveyed and translated product implementations with custom client executive goals to realize optimal pricing and marketing strategies.