

# TIMOTHY JAMES BARRETT

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## EDUCATION

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**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

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**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

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**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

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**Allvue Systems**

*July 2020 – Present*

*Application Engineer, Operations*

*New York, NY*

- Application engineer for front-to-back office credit solution with international clientbase.
- 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 standups 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 Assisant 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.