

**Timothy James Barrett**  
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## EDUCATION

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- **Stevens Institute of Technology** Hoboken, NJ  
*Bachelor of Science in Computer Science* *Sep. 2016 - May 2020*

## WORK EXPERIENCE

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- **Allvue Systems** New York, NY  
*Application Engineer, Operations* *July 2020 - Present*
  - Implemented Salesforce database searching for proprietary Chrome extension increasing documentation cross-referencing productivity for 30 engineers.
  - Delivered SQL scripts for client production environments to resolve trade data inconsistencies with back office providers.
  - Documented client implementation defects and translated to consulting requests.
  - Managed product expectations and functionality for client base of over 50 different hedge funds, firms, and investment banks through email and phone.
- **New Jersey Innovation Institute** Newark, NJ  
*Project Assistant and Consultant, Innovation Services* *June 2019 - Aug. 2019*
  - Created the project prioritization system for incubation of high ROI solutions within physician networks, securing a \$1,000,000 contract.
  - Negotiated directly with client executives to ensure operation within project budgets.

## PROJECTS

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- **jamesbarrett.us** Haledon, NJ  
*Personal* *October 2020*
  - Designed a responsive single-page application in React for portfolio projects and contact information utilizing the React-Router library.
- **Stevens Shuttle System** Hoboken, NJ  
*Student* *August 2019 - May 2020*
  - Collaborated with students on Senior Design Project to create a user-friendly bus schedule application, increasing arrival time accuracy from 20 to 98 percent.
  - Exercised AWS Lambda operations to compile raw location data from third party bus API.
  - Utilized unsupervised machine learning to group bus data and predict arrivals within 2 minutes.
  - Built a responsive React application to display predicted schedules for student use on both mobile and desktop devices.
- **Agent-based Model of Infectious Disease** Hoboken, NJ  
*Student* *October 2019 - December 2019*
  - Developed a Python simulation to render the stages of the 2014 West Africa Ebola outbreak for a quantitative biology course final project.
  - Implemented agent-to-agent interaction such as rate of infection, vaccination effectiveness, and likelihood to evacuate impacted areas.
  - Employed CSV exporting and graphing libraries to visualize and compare simulation data through charts over time.

## TECHNICAL SKILLS

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Languages	SQL, Python, JavaScript, C#, XSLT, Apex (Salesforce)
Technologies & Libraries	React, Redux, Node.js, Express, Pandas, HTML, CSS, AWS Lambda
Tools	SQL Server Management Studio, Webstorm, Visual Studio, Git, TortoiseSVN
Databases	MySQL, MongoDB, Firebase Realtime DB