

# James Currier

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## EXPERIENCE

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- **Software Engineer - Volunteer** Remote  
Storytellers of Canada September 2020 - Present
  - **Built Mobile App (React Native/Python):** Worked on a team of 6 to develop and deploy a storytelling social media app for the organization. I implemented backend server functions, designed app prototypes, and built major frontend components for both iOS and Android.
- **Associate Software Engineer** Remote  
J.D. Irving Limited - Corporate Analytics May 2020 - August 2020
  - **Built Sourcing Optimization Engine (Python/R/Julia):** Designed and Engineered the core logic of an optimization engine used to determine product sourcing decisions on a billion dollar scale.
  - **Engineered Reactive UIs (Shiny/HTML/CSS/JavaScript):** Built front end interfaces which reacted in real-time to data from R, Julia, and Python.
- **Associate Business Systems Analyst** Dieppe, NB  
J.D. Irving Limited - Corporate Analytics May 2019 - August 2019
  - **Designed and Engineered Truck Routing Software (Python):** This core software which I built is used in multiple terminals throughout North America, and is responsible for coordinating deliveries valued at over one million dollars per terminal per day.
  - **Built Various Components of Large Projects (Python/R/TypeScript/MySQL/Node.js):** Implemented complex mathematical functions, web scrapers, and data parsers among others.
- **Associate Business Systems Analyst** Dieppe, NB  
J.D. Irving Limited - Corporate IT May 2018 - August 2018
  - **Created Software For Crop Analysis (Python):** Designed and built software to detect planting deviations from aerial photographs. This software performed extremely well and provided valuable insights which directly led to increased profits.
- **Won First Place** Saint John, NB  
New Brunswick High School Programming Competition May 2017
  - Solved 7 challenging programming problems in 3.5 hours, to take first place in the province.

## SOFTWARE SKILLS

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- **Languages:** Python, C, C++, Java, C#, JavaScript, TypeScript, HTML/CSS, R, Julia, Bash.
- **Technologies:** React, React Native, TensorFlow, PyTorch, Express, Node, MySQL, PostgreSQL.
- **Tools:** Linux, Git, VSCode, Firebase, Google OR Tools, Azure Dev Ops, Jira, LaTeX.

## EDUCATION

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- **University of Toronto** Toronto, ON  
Computer Science Specialist; Artificial Intelligence Focus; Math Minor Sept. 2017 – April 2021
  - Completed courses on Data Structures, Algorithm Design, Software Development, Artificial Intelligence, Databases, Operating Systems, Computer Architecture, and Natural Language Processing.