James Currier

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EXPERIENCE

- **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 in 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.
    - **Developed Data Visualizations (HTML/CSS/JavaScript)**: Designed and built interactive tools to provide beautiful, intuitive, effective visualizations of data.
    - **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.
    - **Built Project Queuing Tool (HTML/CSS/JavaScript)**: Built software for teams to document, review, and prioritize completed, current, and future projects. This program was used by multiple teams, and later evolved into the core code of the company's scheduling software.

- **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.
    - My chosen language for this competition was Python.

SOFTWARE SKILLS

- **Languages**: Python, C, C++, Java, C#, JavaScript, TypeScript, HTML/CSS, R, Julia, Bash.

- **Technologies**: React, TensorFlow, PyTorch, Express, Node, MySQL, PostgreSQL.

- **Tools**: Linux, Git, VSCode, Firebase, Google OR Tools, Azure Dev Ops, Jira, LaTeX.

EDUCATION

- **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.