

# Soocharn (Leo) Jeong

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## EDUCATION

### University of Toronto

Honours Bachelor of Science in Computer Science

Toronto, ON

Sep. 2022 – July 2027

## TECHNICAL SKILLS

**Languages:** Java, Python, C/C++, C#, SQL (Postgres), JavaScript, HTML/CSS

**Frameworks:** React, Node.js, Flask, Tailwind-CSS

**Developer Tools:** Git, Docker, Azure ML Studio, VS Code, Eclipse, Vim, Android Studio, Jira, Postman, DBeaver, Unix/Linux

**Libraries:** pandas, NumPy, Matplotlib

## PROJECTS

### Radial Basis Image Denoiser | Python, Numpy, Jupyter Notebook

Jan 2025 – Feb 2025

- Developed a functional image denoiser from scratch using Python and Jupyter Notebook.
- Implemented an RBF regression algorithm using linear programming techniques in Numpy Python library.
- Went through extensive Python debugging to solve parameter errors within the implemented linear algebra.

### Polynomial Regression Algorithm | Python, Numpy, Jupyter Notebook

Jan 2025 – Feb 2025

- Implemented a polynomial regression algorithm from scratch using Python and Jupyter Notebook.
- Used Numpy Python library to orchestrate core linear algebra and Data Manipulation.

### QuickBay | Python (Flask), OpenCV, Javascript, React-Native, Git

Oct 2024 – Oct 2024

- Developed an innovative React-Native application that scans unused items to automatically create eBay listings.
- Applied object-oriented design and SOLID principles in JavaScript to create high quality software.
- Leveraged a Python server running OpenCV using a websocket connection to ensure real-time object detection, allowing 10+ listings to be created in one use of product.

### Penguin Species Classifier | Python, Jupyter Notebook, Azure ML Studio

Aug 2024 – Sept 2024

- Orchestrated a training pipeline and an inference pipeline for a K-mean clustering model that sorts unknown penguins into different species based on their culmen length/size, flipper length, and body mass.
- Performed data cleanup and normalization on a raw csv file, achieving average distance to centroid to 0.26.
- Developed tests with Python Pandas library within the Azure-integrated Jupyter notebook to measure prediction accuracy.

### Toronto Asian Arts Museum App | Java, Agile, Object Oriented Design, Git

June 2024 – Aug 2024

- Applied object oriented design and SOLID design principles in Java for an low cost and easy to use codebase.
- Developed XML views and Java activities to generate a pdf report using the raw data read by the Firebase API.
- Followed an agile environment in a Jira team, meeting sprint deadlines and participating in code reviews.
- Fixed a bug where media data would not be fetched, fixed by unit testing and with excellent communication with team members.

### ToDo list | Javascript, React.js, Object Oriented Design, Git

July 2024 – July 2024

- Built a RESTful API to query read/insert/update requests for to-do list data on a PostgreSQL database.
- Utilized React.js states and Express.js middleware to fetch and present data between the client and the server.
- Utilized proxy on http calls within React components to practice encapsulation, improving overall security.
- Fixed a bug that was preventing the app from being hosted to Heroku by handling SSL.

## EXPERIENCE

### Hackathon Organizing Committee/Marketing Director

Oct 2023 – Present

Google Developer Group

Toronto, ON

- Invoked student engagement for the Google Devfest, gathering 100+ student developers.
- Collaborated with multiple AI student organizations at the University of Toronto to host GenAI Genesis 2024.
- Hosted and advertised a hackathon which produced 24 AI projects conforming to the 17 UN sustainability goals.
- Invoked student engagement for the Google BuildWithAI conference by creating captivating design elements.