Amey Dhamgunde

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EDUCATION

University of Toronto, St. George — Toronto, ON
B.A.Sc in Engineering Science, Machine Intelligence + PEY — *Sept 2020 – Apr 2025*

Related Courses: Algorithms & Data Structures, Operating Systems, Distributed Computing, Machine Learning & Neural Networks, Artificial Intelligence & Game Theory, Probability & Statistics, Matrix Algebra & Optimization

TECHNICAL SKILLS

Languages : Python, Javascript, Java, HTML/CSS, C/C++
Frameworks : TensorFlow, Keras, PyTorch, NumPy, SciPy, Scikit
Dev Tools : Visual Studio Code, IntelliJ IDEA, Jira, Jenkins, Git, Gitlab

EXPERIENCE

Software Engineering Intern, PEY — Modern Campus
May 2023 – June 2024 — *Remote - Toronto, Ontario*

- Designed and implemented new features using **Java, Javascript, and JSP** in an agile software development cycle
- Impacted **millions** of LLLEE users by investigating bugs and developing fixes and improvements on the support team
- Spearheaded the technical development of the DestinyOne to Lifelong Learning EE (LLLEE) rebranding project
- Created, enhanced, optimized, and monitored **nightly automated QA** processes using **BDD and Serenity**
- Decreased query response times by **up to 70%** and reduced DB CPU load by improving inefficient SQL queries

Software Development Intern — GE Renewable Energy
June 2022 – Oct 2022 — *Markham, Ontario*

- Automated the process of **updating technical documentation** from codebase changes and vice versa using **Python and C**
- Designed Python programs to **generate C code** from JSON spec data, used in **tens of thousands** of GE protection relays
- Wrote Python scripts to **automate** backwards compatibility and stress testing **software validation procedures**
- Implemented remote user interfaces for **long-distance data display** and control of 8-series relays

R&D Software Validation Intern — GE Renewable Energy
June 2021 – Sept 2021 — *Markham, Ontario*

- Streamlined testing procedures by developing **Python and C#/Visual Basic** programs to automate device setup protocols
- Created monitoring panels to cohesively display live data from **50+ internal testing units** using proprietary software
- Developed new communications between devices on the Industrial Internet of Things (IIoT)

Coding Instructor — Code Ninjas
Aug 2019 – Aug 2020 — *Aurora, Ontario*

- Taught children from the ages of 8-14 programming in **Javascript, C#, and Scratch**
- Educated, supported and evaluated students as they advanced through the curriculum

PROJECTS

AlgoFund — *React.js, Flask, Algorand (Blockchain) API*

- Built AlgoFund (a pun on "I'll go fund"), a **decentralized bounties platform** on the Algorand blockchain allowing anyone to attach a bounty to any GitHub issue
- Submitted to UWaterloo's **Hack the North 2019** [1500+ competitors], winning the **HtN Finalist** and Algorand API Prizes

CNNs, RNNs and Transformers on Sentiment Analysis — *PyTorch, TensorFlow, NumPy*

- Comparing the performance of **Convolutional** and **Recurrent Neural Networks** (CNNs and RNNs) against **transformer models** in a closed environment for a sentiment analysis task using the IMDb movie reviews dataset

Co:herent — *Next.js, Co:here (ML) API, React Speech Recognition API, React Speech Kit API*

- Created Co:herent using Co:here's **NLP ML APIs** and **prompt engineering** to allow the hearing impaired to streamline their conversations with others by providing context-aware sentence suggestions
- Submitted to **Hack Western 9** [300+ competitors], winning **1st place overall** and an Organizers Choice Award

Multi-Instrument Audio Source Separation — *PyTorch, NumPy, MT3*

- Separates an audio file into its constituent instruments by **implementing and fine-tuning** a pre-trained transformer model (MT3), trained on a synthetic dataset