Krishna R. Cheemalapati

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Education

UNIVERSITY OF TORONTO
Honors BSc, Computer Science
Expected Graduation: May 2026
Arts & Science Co-op Program
GPA: 3.62 / 4.0

Coursework

Introduction to Databases
Programming on the Web
Software Tools + Systems Programming
Software Design + Software Engineering
Algorithm Design, Analysis & Complexity
Human Computer Interaction
Data Structures and Analysis
Design of Computational Media

Skills

PROGRAMMING
Over 5000 lines:
Java • Python • Javascript • React

Over 1000 lines:
HTML • CSS • R • SQL

Familiar:
C • PHP • Android

TOOLS
Git • VS Code • Figma • Excel

Certifications

Microsoft Certified: Azure
AI Fundamentals (AI-900)

Building Modern Python Applications
on AWS (Amazon, via Coursera)

Real-World Ethical Hacking:
Hands-On Cybersecurity (via Udemy)

Introduction to Machine Learning
(Duke University, via Coursera)

Awards and Distinctions

2024 First Place - NSBEHacks
      • Placed **1st** out of **48** teams
2022 Technology Leadership
      Initiative Acceptance
      • Awarded to the **top 30 CS
      students** at UofT St. George
2022 Best Health Hack - HackWestern
      • **Best** health-related project
      out of **72** teams competing

Relevant Professional Experience

FULLSTACK ENGINEER | SingleKey
May 2024 - Present | Toronto, ON, Canada
- Optimized services to **increase annual revenue** by a projected **$300k**.
- Implemented new website designs and features using **Next.js** and **Django** following A/B tests to enhance usability and user experience.
- Designed **Playwright** end-to-end tests and Python unit tests to verify new feature functionality.

SOFTWARE DEVELOPER | Sunnybrook Research Institute
May 2023 - Sept 2023 | Toronto, ON, Canada
- Developed and designed frontend annotation interface for collaborative brain signal annotation platform CrowdEEG (Schaekermann, et al., 2020).
- Built the backend signal processing pipeline using the **MeteorJS** framework.
- Created and trained machine learning models to support innovative lab research.

WEB DEVELOPER | Seabury Active Life Community
June 2019 – July 2019 | Bloomfield, CT, USA
- Created a testing platform to accelerate CI/CD processes at Seabury through the use of **PHP, HTML, CSS,** and **SQL**.
- Designed a password-retrieval mechanism for the employee intranet.
- Researched options to enhance the security of Seabury's databases.

Community Leadership and Involvement

FRONT-END DEVELOPER | UofT Freelancers' Organization
Jan 2022 – Present | Toronto, ON, Canada
- Designed and developed webpages for new clubs using **Figma** wireframes, **React.js** and **Node.js**, **HTML**, **CSS**, and **JS**.
- Collaborated with an agile team in weekly sprints to complete tasks and gained expertise in version control using **Git, GitHub,** and **Plastic SCM**.

Notable Projects

AI SIGN - THIRD PLACE OVERALL
May 2023 | GryphHacks Hackathon @ University of Guelph
- Developed a web app to translate American Sign Language to English using **React**, **Node.js**, **TensorFlow.js**, and **ml5.js**.
- Trained a custom convolutional neural network to translate users' video feed in real time using **Python**, **MatPlotLib**, **Pandas**, and **NumPy**.

SURVIVING THE HEART ATTECH - BEST HEALTH HACK
Nov 2022 | HackWestern 9 Hackathon @ Western University
- Designed an application that empowers citizens skilled in AED/CPR to save lives using **Google Firebase**, **Express.js**, **React**, **Node.js**, **HTML**, **CSS**, and **JS**.
- Utilizes the **Google Maps API** to send the location of callers to nearby citizens
- Projected **80% reduction** in first-responder wait times in Canada and **2x increase** in 30-day survival likelihood after hospitalization

INTENTFUL - IN COLLABORATION WITH VOICEFLOW
Sep 2022 - Dec 2022 | Technology Leadership Initiative
- Created a chatbot transcript analysis platform to help retail companies with **MongoDB**, **Express.js**, **React**, **D3**, **Node.js**, **HTML**, **CSS**, **JS**, **Jest**, and **Git**.
- Used the Voiceflow API to directly add intents onto a developer's dashboard.
- Worked in an agile team in weekly sprints with stand-ups to discuss progress and interface with Voiceflow's ML Lead.