Andre Cura

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SUMMARY

- A third-year undergraduate student at the University of Toronto with a major in Neuroscience and a minor in Computer Science.
- A software developer with experience in fullstack web development and mobile development.
- An award-winning CTF player with experience in reverse engineering and binary exploitation.
- A leader with experience in organizing and hosting CTF practice sessions, in addition to training new developers.

TECHNICAL SKILLS

Languages: Python, C/C++, SQL (Postgres), JavaScript, TypeScript, HTML/CSS
Frameworks: React, React Native, Expo, Node.js, NestJS, Express.js
Developer Tools: Git, Jira, Bitbucket Pipelines, Docker, AWS (S3, EC2, Elastic Beanstalk), Visual Studio Code, Ghidra, GDB, x64dbg
Libraries: knex.js, TypeORM, GraphQL, Bootstrap, angr, pwntools, z3

EXPERIENCE

Part-time Software Developer   September 2021 – September 2022
Tasttlig Corporation   *Toronto, ON*
- Updated and maintained a mobile application that uses React Native and Expo
- Created a new version of the company's fullstack application using NestJS, GraphQL, TypeORM, and React with TypeScript
- Implemented new features to the old version of the company's backend application
- Debugged and fixed bugs in the festival application for both the web and mobile versions
- Trained new developers on the company's codebase
- Worked in an agile environment using Jira
- Monitored and maintained the company's CI/CD pipeline using Bitbucket Pipelines

Software Developer Intern   *June 2021 – August 2021*
- Kickstarted a portfolio site for the company using React.js, HTML, CSS
- Maintained the company's festival application using React.js, Node.js, Express.js, and PostgreSQL
- Discovered, reported, and fixed two security vulnerabilities in the payment workflow of the festival web application

EXTRA-CURRICULARS

University of Toronto Capture the Flag (UofTCTF)   Toronto, ON
Capture the Flag (CTF) Player   *November 2021 – Present*
- Participated in CTF competitions
- Solved challenges using Python, C/C++, and Bash
- Reverse engineered binaries using Ghidra, angr, and z3
- Exploited binaries using GDB and x64dbg, and pwntools
- Achieved 3rd place in Toronto Region for the CyberSci Regional Qualifiers 2022-23
- Achieved 3rd place in the global standings for picoCTF 2022
- Achieved 2nd place among undergraduate teams for picoCTF 2023

Secretary of UofTCTF   *October 2022 – Present*
- Maintained a list of all club members
- Taught new members how to use tools and resources to solve CTF challenges
- Organized and hosted CTF practice sessions

EDUCATION

University of Toronto   Toronto, ON
HBSc Life Sciences, Major in Neuroscience, Minor in Computer Science   *September 2020 – April 2024*

Azure Fundamentals
Microsoft   *September 2022*

Security, Compliance, and Identity Fundamentals
Microsoft   *November 2022*