

CARSON BARNSTABLE

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EDUCATION University of Alberta, Edmonton, AB — Fall 2021 - Spring 2025

BSc: Computing Science Specialization with Minor in Business

- Achieved 3.96 / 4.0 GPA over 6 Semesters Completed (first 3 years)

Notable & Key Courses

- CMPUT415 - Compiler Design
- CMPUT481 - Parallel & Distributed Systems
- CMPUT379 - Operating Systems
- CMPUT325 - Non-Procedural Programming
- FIN413 - Risk Management
- SEM311 - Canadian Human Resource Management

SKILLS & TECHNOLOGIES

Personal Skills

- Communication : Engaged effectively with students and peers while teaching in labs
- Problem-Solving : Independently developed innovative solutions for business needs
- Time Management : Managed a full courseload while balancing multiple work roles
- Leadership : Motivated and coordinated teams during events and workshops

Technical Knowledge

- Languages : C/C++ | Python | Java | RISC-V | JavaScript | Lisp | Liquid | SQLite | GraphQL
- Platforms : Node.js | Android | React/Remix | Firebase | Pandas | BioPython | PyGame
- Software : Linux | Git(Hub) | VSCode | Microsoft Office (+Excel) | Google Workspace

WORK EXPERIENCE

Full-Stack Web Developer Intern - All-Star Telescope — 05/2024 - 09/2024

- Developed a business-critical Shopify checkout customization that achieved 100% uptime, ensuring that reservation orders were accurately captured and properly processed
- Created Remix-based custom applications that enhanced fulfillment efficiency & speed, streamlined purchasing & supply management, and improved inventory organization
- Designed and integrated multiple new business initiatives aimed at boosting engagement, including the *All-Star Amateur Astronomy Photo of the Day* (Triple APOD)

Teaching Assistant (CMPUT 201) - University of Alberta — 09/2023 - 05/2024

- Led 2 weekly lab sessions, providing students assistance with labs, presenting relevant subject information, and addressing questions related to class concepts
- Conducted demonstrations of student labs, to assess their understanding of the material
- Jointly developed lab grading scripts, and manually graded midterm and final exams
- Compiled and distributed weekly newsletters to ensure consistent communication between 26 teaching assistants and over 600 students

Undergraduate Research Assistant - University of Alberta — 05/2023 - 09/2023

- Awarded the NSERC USRA Award, selected as 1 of 3,150 recipients in Canada
- Conducted bioinformatics (omics) research under the supervision of Dr. Guohui Lin, providing general assistance to two graduate students, Shashank Pathak and Farishta Kabir
- Examined theoretical models with grad students, crafting scripts to assess proposed hypotheses over custom datasets, followed by data collection and analysis of the results
- Participated in weekly team meetings to plan work assignments, coordinate ideas, and ensure that research efforts stayed productive and on schedule

OTHER WORK EXPERIENCE (cont.)

Data Entry/Synthesis/Validation - Multiple e-Commerce Sites — 05/2022 - Present

- Developed and effectively managed Shopify product pages for two local stores, *All-Star Telescope* and *The Puzzle Shop (.ca)*, ensuring a seamless online presence
- Independently managed and prioritized the timely processing of emailed work requests, significantly contributing to the overall operational effectiveness of the e-commerce sites
- Collected and aggregated product information from over 50 different vendor websites, datasheets, and price lists, to build informative and accurate product pages
- Regularly verified prices to ensure compliance with manufacturer MAP (Minimum Advertised Price) lists, and to maintain competitive pricing relative to competitors

Customer Service Associate - Lowe's Home Improvement — 02/2021 - 09/2023

- CSA for Lumber & Building Materials; Covered as Cashier & in Customer Service as needed
- Oversaw lumberyard (assembled online orders and loading customer vehicles)
- Operated reach truck to move merchandise & cut shop to cut lumber to desired sizes
- Assisted hundreds of daily walk-in customers with finding products and planning projects

VOLUNTEER EXPERIENCE

UASU Week of Welcome / New Student Orientation 2024 — Faculty Leader

- Collaborated with a team of faculty and volunteers to create an engaging orientation experience for new students, by leading tours and answering questions/concerns
- Worked with fellow volunteers to prepare & serve pancakes to ~1000 students an hour
- Cultivated strong communication and interpersonal skills by actively engaging with diverse groups of individuals, both as a peer and as a supportive team member

TeamUP Science Computer Science Workshop 2024 — Volunteer Instructor

- Taught two lessons on intermediate Python programming to high-school students
- Provided assistance with project, and handled all questions/issues that arose during day

nathACKS 2023 (Canada's Largest Neurotech Hackathon) — General Volunteer

- Collaborated with a team to manage the setup, distribution, and cleanup of food for participants, ensuring smooth operations throughout the weekend
- Supported Tech Team (with hardware setup & YouTube live streaming) as well as Campus Guides (with welcoming/accommodating event visitors, guests, and judges)

NOTABLE ACHIEVEMENTS

Scholarships and Awards

- NSERC Undergraduate Student Research Award
- UofA Science Academic Scholarship
- A Louise McKinney Post-Secondary Scholarship
- CIPS Stan Heaps Memorial Scholarship
- Faculty of Science Gold Standard Scholarship (x2)
- Ivy & William Thomson Scholarship
- ARA Foundation: Region 10 Dorothy Wellnitz Scholarship & General Undergrad Scholarship

Other Achievements

- Top 2% (for Completion) in the International Advent of Code Challenge 2023
- Male Student Athlete of the Month (Curling - Dec 2020) - Strathcona HS 2020
- Completed Bronze Cross & Bronze Medallion Lifesaving Courses 2019

References Available upon Request