JANIA VANDEVOORDE

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EDUCATION

Brown University • Providence, RI — Expected Graduation: May 2025
Candidate: Sc.B. Computer Science | Candidate: Sc.B. Statistics — GPA: 4.0

- **Relevant coursework:** data structures and algorithms, data science, machine learning, computer vision, computer systems, intro software engineering, discrete mathematics, logic for systems, theory of computation, statistical inference, linear algebra, multivariable calculus
- **NCAA Division One Women's Rugby Athlete:** team captain and starter
  - 2023 Collegiate Rugby Championship 7's National Champion
  - **Recognition:** 2022-23 Scholastic All-American, 2021-22 & 2022-23 Academic All-Ivy, 2022-23 Academic All-Conference

Dubai American Academy • Dubai, United Arab Emirates — Graduation: 2021
International Baccalaureate Diploma — Points: 44/45

TRANSFERRABLE SKILLS

- Fluency in English and French; limited working proficiency in Arabic
- Global-minded; traveled to 40+ countries, lived in 7 countries; passionate about diversity and inclusion
- **Technical skills:** Python, R, SQL, Java, C/C++, TypeScript, JavaScript, React, Alloy, Docker, Git

LEADERSHIP AND WORK EXPERIENCE

Head Teaching Assistant • **Brown University Department of Computer Science** • Providence, RI — 11/22 - Present

- Hire and manage diverse teams of Teaching Assistants (totaling over 100 members) across four semesters under the mentorship of course instructors. Demonstrate exceptional leadership and team-building skills in a dynamic academic setting.
- Play a key role in the development and refinement of comprehensive course materials, contributing to the learning experience of over 1,000 undergraduate students in foundational CS concepts: discrete mathematics and data structures.
- Enhance student engagement and understanding through weekly office hours, recitations, and labs, adapting teaching methods to serve diverse learning styles and ensure an inclusive learning environment.
- Assess and grade student problem sets, coding assignments, and exams in Python, LaTeX, and Lean, maintaining high academic standards and providing constructive feedback.

Data Science Intern • **Takachar** • Remote — 01/24

- Had a significant impact on a project that directly contributes to reducing carbon emissions by developing an algorithm to detect spikes in biomass weight within agricultural waste reactors.
- Processed and analyzed 75 unique datasets to accurately track and plot weight fluctuations and the detected spikes, contributing to advancements in reactor optimization.
- Collaborated closely with Takachar's Data Science Lead to refine detection methods, demonstrating a strong ability to translate complex data into actionable insights.

Head Research Intern • **Mohammed Bin Rashid School of Government (MBRSG)** • Dubai, United Arab Emirates — 06/20 - 06/21

- Assessed COVID-19's impact on 151 international companies by creating a database of annual reports and reading, evaluating, and summarizing companies' finances and market trends from 2005 to 2020.
- Managed a group of 20 researchers and liaised between Professor Melodena Stephens and the team.
- Co-founded and led the MBRSG internship club at Dubai American Academy. Mentored a student to develop his skills for sustainable succession planning.

RELEVANT PROJECTS

"Scrappy" - a photo-sharing/scrapbook-creating social media site. — 11/22 - 12/22

- Built the site's components with a React JavaScript framework, using React Router to create a navigable state system
- Connected with Google Authentication API to compose a login service and security. Developed a MongoDB Java database, uploading photos to AWS.
- Implemented a natural language sorting algorithm using English feature vectors to sort posts, optimizing user experience

Book Recommender - interactive web app designed to assist users in discovering books based on their preferences. 11/23 - 12/23

- Implemented dynamic filtering allowing users to easily navigate through a large dataset to find books that match their specific preferences. Engineered a random book recommendation, offering users personalized suggestions based on their filtering preferences, adding an element of discovery and engagement.

"WeensyOS Model" - operating system model in a declarative specification language. — 04/23 - 05/23

- Designed the comprehensive model in temporal Forge to verify properties about virtual memory and page allocation within an operating system, such as process isolation.