Alexander Dumouchelle

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Summary

I'm a software and machine learning engineer who is always excited to take on new challenges. I thrive in fast-paced environments with a dedicated team. I've worked on projects ranging from machine learning to full-stack web development. In addition, I'm also an involved teacher and performer with a love for music and education.

Education

BS　**James Madison University**, Computer Science & Independent Scholars　　　Harrisonburg, VA
Aug 2019 - May 2023

- **GPA 3.65 / 4.0** - 169 credits - avg 20 credits/semester
- **Minors** in Music, Music Industry, and Honors Interdisciplinary Studies
- **President's and Dean's List** - 6 of 8 semesters
- **Drum Major** - JMU Marching Royal Dukes - 500+ member band

Experience

Accenture Federal Services, Software and Machine Learning Engineer　　　Arlington, VA
Aug 2023 - Present

- Lead full-stack developer for an internal data labeling accelerator
- Increased labeling efficiency by 80% with Python and Docker-based automation
- Trained computer vision models for image restoration and artifact classification
- Customized diverse datasets of > 300k images to train robust and flexible models
- Implemented Docker to containerize and streamline machine learning pipeline
- Worked on three projects simultaneously, balancing deadlines and responsibility

The Cadets Drum and Bugle Corps, Administrative Staff　　　Erie, VA
May 2023 - Aug 2023

- Resolved and prevented logistical issues on a national tour
- Constant pressure involving a high degree of accountability and self-guidance
- Often the only person assigned to critical issues

Independent Projects

OpenMarch, Founder and Lead Developer　　　*GitHub Repo* ↗
OpenMarch.com ↗
Aug 2023 - Present

- Built a free, open-source app to introduce competition in the marching arts
- Developed hands-on technical expertise and product management skills
- Led a remote team of volunteers, applying agile development practices
- Partnered with organizations and companies to expand industry adoption
- Collected user stories from 300+ designers and thousands of users
- Designed a performant SQLite database with automatic history tracking
- Bootstrapped funding through merchandise sales and marketing

Technical Skills

Languages: Python, Typescript, HTML, CSS, C, C++, Java, SQL

Frameworks and Libraries: React, Pytorch, Django, Next.js, Node.js, Electron, Tailwind

Tools and Techniques: AWS (S3, EC2), Computer Vision, Git, Linux, Docker, OOP, Agile, RESTful APIs

Interests

Teaching: High school marching band and drum corps instructor (200+ members), private music lessons

Performing: Brass band, solo competitions, community ensembles