MASSIMO ALBANESE

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EDUCATION

B.ENG. SOFTWARE ENGINEERING - ONTARIO TECH UNIVERSITY
Oshawa, Ontario | Expected 2024 | President's List Winter 2020, Dean's Honours List Fall 2021

SKILLS

PROGRAMMING LANGUAGES: Rust, Python, Flutter, Dart, JavaScript, HTML, CSS, PostgreSQL, Java, MySQL
FRAMEWORKS & LIBRARIES: Bootstrap, Docker, Electron, FastAPI, Git, jQuery, Neon Bindings, NodeJS, SQLAlchemy, Stripe
OFFICE SKILLS: Microsoft Windows, Mac OSX, Photoshop, Microsoft Office, Solidworks, AutoCAD, Adobe XD, Framer
LANGUAGES: English, French, Italian

PROJECTS

MADGLITCH - IMAGE & VIDEO GLITCH EDITING
Creator | 2022 - Present
- Unreleased cross-platform desktop and mobile app for producing glitch effects using **Flutter, Dart,** and **Rust**
- Custom **Rust** algorithms for image processing, including pixel sorting, audio convolutions on image data, and filters

MADPIXELSORT - IMAGE & VIDEO PIXEL SORTING
Creator | 2021 - Present | madpixel.software/madpixelsort
- Cross-platform desktop app for producing pixel sorting effects using **Electron** and **Neon Bindings**
- Single-handedly conceptualized, built, and brought to market with commercial success
- Implemented a multi-threaded **Rust** algorithm that can sort 24 million pixels in under 500 ms
- Designed an intuitive & responsive UI from scratch in **HTML, CSS, JavaScript,** and **JQuery**
- Included a keyframing system to allow smooth transitions in animations and video

MADPIXEL.SOFTWARE - COMPANY WEBSITE
Founder, Creator | 2021 - Present | madpixel.software
- Official website for my company, MADPIXEL SOFTWARE
- Website built from scratch with **Bootstrap, jQuery,** and **Sass,** with custom **CSS** text glitch effects
- **Python** (**FastAPI**) Async REST backend server for website hosting, app licensing, and payment processing
- **PostgreSQL** database using **SQLAlchemy** ORM mapping for customer and licensing information
- Webserver and database hosted within respective **Docker** containers
- **Stripe** integration for payment processing with **Stripe Checkout**

PROFESSIONAL EXPERIENCE

IT SPECIALIST - H2FLOW EQUIPMENT INC.
Vaughan, Ontario | Summers 2014 – 2019
- Regularly consulted with sales, engineering, and HR teams for solving pipeline issues with custom software solutions
- Replaced Excel spreadsheets for sales and commissions, with a **MySQL** database system still accessible through Excel
- Regularly created and updated website and email content in **HTML & CSS**
- Serviced local fileservers, webservers, and a fleet of 40+ computers

KARATE INSTRUCTOR - SUMMIT KARATE INC.
Toronto, Ontario | 2012 – 2017
- Planned and taught classes to groups of up to 30 students, with ages ranging from 3 to 70 years old
- Achieved Second Degree Black Belt in Shotokan Karate

PERSONAL INTERESTS

Digital Art, Video Games, Photography, Bass Guitar, Music, Physical Training, Reading, Hiking