

# Tasos Stamadianos

Senior Software Developer & Team Lead

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## Skills

**Languages:** C#, Python, C, C++, Java

**Software:** PostgreSQL, MSSQL, EF Core, ASP.NET Core, Kafka, WPF, OpenGL, Direct3D

**Services, OS & Tools:** AWS, SendGrid, Twilio, Windows, Linux, Git

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## Experience

### CarbonCure Technologies

*Digital Team Lead - April 2021 to Present*

- Facilitated check-ins with team members to assess their sentiment about their working environment
- Mentored junior developers in architectural design, good programming practices, and how to be successful in a team environment
- Implemented new team meeting strategies increasing overall effectiveness and engagement, while reducing meeting time by 40%
- Identified needs of the team and coordinated and led hiring process of developers and co-ops
- Continued to provide internal backend support and decision making
- Interfaced with external stakeholders to assist their onboarding with the platform

*Backend Developer - January 2020 to April 2021*

- Maintained legacy software scripts in Python and transitioned to an observable solution with systemd and error notification emails
- Designed and wrote a monolithic application in C# with ASP.NET Core and Entity Framework Core to provide a RESTful interface over insertion and consumption of all company data
- Worked with hardware consultants to design API endpoints and request bodies to support new generations of hardware
- Identified resource requirements and grew team from one individual to fifteen
- Deployed initial version of software backend to AWS using CDK

### Ukko Agro

*Backend Developer - March 2018 to September 2019*

- Used Python and NoSQL to implement an automated pest prediction system aimed at helping farmers optimize pesticide application using a proprietary disease prediction model
- Integrated backend with Twilio to allow farmers to communicate through SMS
- Planned and implemented scale-up of product from 3 farms to 81 using Kafka-based events, Kotlin for infrastructure and Python for disease prediction models. PostgreSQL was used as an up-to-date cache of all Kafka events.

### Pathcore Inc.

*C++ Developer - April 2017 to March 2018*

- Added support for numerous proprietary image file formats from a variety of microscope vendors
- Built application in C# ASP.NET Core for remote control of a digital microscope with live video feed through a browser
- Saved bandwidth and increased responsiveness by enabling image handling backend to send compressed data directly from a file to a remote client

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Ludia Inc.

*Game Engine Programmer – January 2016 to April 2017*

- Restructured game engine to better suit functional testing and caught major bugs before production
- Added support for automated screenshots to facilitate deterministic graphics functional testing
- Integrated cross-platform normal mapping, leveraging texture properties of mobile GPU vendors

INVIVO Communications Inc.

*Junior Interactive Media Developer – May 2015 to November 2015*

- Used Unity Engine to develop an interactive display about the progression of MS on the brain, and provided live on-site support of the product at ECTRIMS 2015
  - Integrated a third-party PDF library into Unity to generate and email PDFs from interactive displays to interested parties
  - Migrated several projects from Unity 4 to Unity 5, including refactoring of UI elements
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## Projects

Cat Food Tracking Application

- Used Flask and Bootstrap to create a server-rendered web application to manage a cat's diet
- Supports configurable diet plans and foods while providing feeding history over time

Lemonade Prescription Pack Label Generator

- Developed a WPF application using C# to render and print a prescription pack label, containing patient and drug information details, using data from a MSSQL database
- Reduced the previously hour-long, end-of-day task to a few seconds whenever a label was required

Circumplex Generator

- Using Python, wrote an image renderer to generate and colour a circumplex graph
- Generated a professional, clean PNG image in 10% of the time required for a hand-drawn image

Parrot Prescription Dispensing Tool

- Wrote a native Windows application using C# and WPF to dispense from a robotic drug dispenser
- Enabled pharmacy technicians to fill 400 monthly blister packs in 25% of the time.

Squeezy Pharmacy Invoice Generator

- Developed a native Windows application in C# and WPF to generate invoices for blister pack orders
  - Coordinated stock for 5 pharmacies by condensing over 800 vendor-specific files per week into a single Excel sheet, producing invoices for almost 67,000 doses of medication.
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## Education

**University of Ontario Institute of Technology – September 2011 to June 2015**

Bachelor's of Information Technology (Honours) – Game Development and Entrepreneurship