Flutter

J2ME

SwiftUI

Xamarin

Game

CryEngine

Renderware

Godot

Havok

Qube

Ren'py

Unity

Unreal

Scaleform

Graphics

Direct3D

OpenGL

Masters degree, Computer Science

Bachelors degree, Computer Science

Johns Hopkins University

Massachusetts Institute of

High school degree, lowa

West Senior High School

Processing

Development

BASIC

C++

C#

Dart Java

Lisp

Lua

Perl

PHP

Swift

Tcl

Python

Writing

English

press releases

Education

and Engineering

**Technology** 

books

Javascript

Objective-C



Developing software since the 80s

Experience Skills

working for myself Jan 2000 - Present App Programming Technicat LLC Development 6502

Consulting and contract development, self-publishing apps and games.

working for the man Jun 1988 - Jun 2001

various

Journeyed through the semiconductor, defense, space, computer graphics, mobile Internet, and video game industries.

**Projects** 

Developer and publisher Jan 2014 - Present

Talk Dim Sum

Your dim sum companion. Read about dim sum and learn how to pronounce the dishes. Available on Itch.io and the App Store.

Developer, publisher and licensee

**HyperBowl** 

Be the ball! A Unity reimplementation of the classic bowling game, licensed from Hyper Entertainment.

· Available on the App Store and Steam

· One of MacLife's Greatest iPhone Apps of 2009 · Formerly available on the Amazon Appstore, Nook store, Itch.io, and various crappy app stores (crappstores?)

Developer

Apr 2016 - Present

Cinefex iPad Edition

An iPad reader for the Cinefex visual effects magazine, with extras such as videos and image galleries.

- · Facilicated transfer from original developer to Cinefex LLC
- · Fixed in-app-purchase issues
- · Updated video player after Apple dropped support for previous API
- · Updated issue download code after Apple dropped support for previous API (notice a
- · Optimized startup time and browsing
- · Updated to comply with ever-changing Apple requirements

**Programmer** 

RC Rally

Sep 2011 - Dec 2011

Dec 2008 - Dec 2019

Emo-Ray vs. the Intergalactic Teddy Bears

A Playstation Home driving/shooting game with alien invader teddy bears.

· Implemented collision physics among cars · Programmer credit displayed in-world

**Programmer** Sep 2011 - Dec 2011 **Awards** 

A Playstation Home multiplayer racing game.

· Made some UI fixes just before release

Leverage for Planning/Scheduling Interval Logic

They misspelled my name.

Certificates

Neomar stock

Neomar

**Programmer** 

Sep 2007 - Jan 2011

Maritime Simulation Demonstration ARPA

They misspelled my name, too.

Blue Mars

A 3D virtual world implemented with CryEngine.

- · Documented the Lua API and framework for creating minigames on the community wiki (a CryEngine wiki even copied part of it!)
- · Integrated newer versions of Scaleform, including Scaleform IME for localization
- · Tweaked CryEngine physics to support an inworld golf game
- · Attended in-world developer meetings. Better than Zoom.

First Hubble Servicing Mission Space Telescope Science Institute

Includes a patch flown on the first Hubble servicing mission. Best workplace award ever.

**Programmer** 

May 2007 - Invalid date

Sep 2006 - Invalid date

Jun 2007 - Present

<u>Nendo</u>

A nifty 3D modeler originally developed at Nichimen Graphics.

· Updated to work on Windows XP.

References

Former client "I still think you're a good programmer."

Prospective client

"I've got a genius app idea!"

Languages

English · Native speaker Cantonese · Food

Korean · Kdrama phrases

## Interests

Cats Reading Viewing Learning Listening Playing

Links

technicat.com github.com/technicat

**Programmer** 

**Darkwatch** A vampire western for Playstation 2 and Xbox. demo builds.

- · Worked on HUD elements for health, ammo, special powers
- · Implemented split-screen (multiple Renderware cameras) for multiplayer
- · Added PAL support

- · Integrated Lua scripting for audio effects and **HUD** elements
- · Received programmer credit (but oddly required
- to list city of birth)

Developer Fugu Games

Small games released as webplayers, Mac widgets, and mobile apps.

- · Fugu Maze, a suspense maze walkthrough that · Fugu Bowl, a simple proof of concept for in the first week and then a trickle after I started charging for it
- got twenty thousand downloads on the App Store HyperBowl that got low ratings but was my most downloaded app (until Apple rejected upgrades).

**Programmer** 

Dec 2003 - May 2004

Tech Deck: Bare Knuckle Grind

A skateboarding game bundled with Tech Deck figures.

- · Implemented installers so each game could be packaged separately and installed in any sequence
- · Added dynamic shadows to replace the placeholder blob shadows (and then switched
- back to the blog shadows because the art director liked them better)
- · Set up a push-button scripted build system so the producers could create a latest build from the subversion source at any time

**Programmer** 

Jan 2001 - Invalid date

**HyperBowl** 

A 3D attraction bowling game, rolling in fanciful locations.

- · Added localization support, particularly for Jillian's installations in Montreal (French)
- · Implemented support for (potential) new lanes, e.g. a toy room, motocross slope...
- · Profiled, optimized (those lanes kept getting bigger and bigger)
- · Fixes for new graphics cards (pesky w-buffer...)
- · Changes to facilitate arcade and PC versions (I'm there in the mobygames credits)

**Programmer** Dec 1999 - Jul 2001

Neomar

One of the first mobile web browsers, conforming to WAP standards.

- · Implemented an HTTP proxy in Java for the Neomar WAP gateway
- - · Launched on Motient's Blackberry service
    - · Company assets acquired by Good Technology

**Programmer** 

Dec 1998 - Dec 1999

Leverage for Scheduling

Supply chain scheduling software for semiconductor fabs. Managed the group reponsible for installation, XML interoperability, and user interfaces.

#### **Programmer**

Nov 1998 - Invalid date

Leverage for Planning

Supply chain planning software for semiconductor fabs. Upgraded from Tcl to TclPro.

Consultant Sep 1997 - Sep 1997

**Mirai** 

Successor to N-World

· Fixed some graphics code (which I eventually realized was originally written by me)

· visited 3D hardware vendors in Silicon Valley (including a young nVidia) to get test cards and discuss OpenGL issues

· Used to make Gollum in the Lord of the Rings

movies

**Programmer** 

Dec 1995 - Jun 1997

N-World

A 3D modeling and animation package descended once upon a time from the Symbolics Graphics Group (written in Lisp, shhh!)

· Ported from IrisGL to OpenGL on SGI

· Manager of Core Software (I made up the title)

workstations

· Used in the making of Mario 3D.

· Ported from Irix to Windows NT

**Programmer** Dec 1992 - Dec 1993

**ORBIS** 

An expert system for submarine simulation.

· Added support for local area network simulations (i.e. games)

 $\cdot$  Donned a submarine uniform and took part in two exercises like I was in The Hunt for Red

· Added Distributed Interactive Simulation support October

for wide-area network simulations (wargames)

**Programmer** Nov 1990 - May 1992

Proposal Entry Processor

A syntax-directed Emacs mode used by astronomers and Institute staff to prepare and edit Space Telescope observation proposals.

· A member of the proposal preparation staff asked for my project to be continued after I left (but alas, no takers).

**Programmer** Oct 1989 - Oct 1990

**Database Accelerator** 

A computer architecture based on content-addressable memories. Implemented compilers and simulators and simulations for the Database Accelerator and Content-Addressable Parallel Processor.

**Programmer** May 1988 - Sep 1989

**DROID** 

A VLSI layout synthesis tool, used in-house to design new products, running on TI Explorer Lisp Machines. Added optimizations and other improvements, skipped most of the meetings (also an optimization).

Student Sep 1987 - May 1988

Multilisp

Bachelors thesis project implementing an Othello game in Multilisp (Multello) to run on the Concert 32-processor computer, trying various parallelism strategies to compare processor utilization and final performance.

· Wrote the thesis in LaTeX on a Symbolics Lisp · Cited in a PhD thesis. Machine.

Student Jun 1987 - Aug 1987

**START** 

Part time student work on a graph display for the the START natural language parser, then running on Symoblics Lisp machines.

# **Publications**

### **Learn Unity 2014 for iOS Game Development**

Jun 2013

Apress

Introduction to mobile game development with the Unity game engine.

### **Technicat on Software**

Jan 2015

self

Collection of software development essays.