



# Phil Chu

## Technicat LLC

Developing software since the 80s

 Technicat LLC

 Las Vegas, US

 <https://technicat.com/>

### Elsewhere

Github

Mastodon

### Toolkit

App Development

Game Development

Graphics

Programming

Writing

### Languages

English

Cantonese

Korean

Overview

Experiences 30

Writing 2

### Experience activity

March 2016



Started 1 project



## Cinefex iPad Edition

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

- Facilitated 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 trend?)
- Optimized startup time and browsing
- Updated to comply with ever-changing Apple requirements

December 2013



Started 1 project

● Talk Dim Sum

August 2011



Started 1 project



## 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



Started 1 project



## RC Rally

A Playstation Home multiplayer racing game.

● Made some UI fixes just before release

November 2008



Started 1 project



## HyperBowl

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

● One of MacLife's Greatest iPhone Apps of 2009

● Available on the App Store and Steam

● Formerly available on the Amazon Appstore, Nook store, Itch.io, and various crappy app stores (crappstores?)

August 2007

Started 1 project



## 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 in-world golf game
- Attended in-world developer meetings. Better than Zoom.

May 2007



Started 1 project



## Fugu Games

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

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

April 2007



Started 1 project



## Nendo

A nifty 3D modeler originally developed at Nichimen Graphics.

- Updated to work on Windows XP.

August 2006



Started 1 project



## 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)

November 2003



Started 1 project

## 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 blob 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

December 2000



Started 1 project

## 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)

March 1999



Earned 1 award

- Leverage for Planning/Scheduling

December 1999



Joined Technicat LLC

● working for myself

November 1999



Started 1 project



## 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

October 1998



Started 1 project

● Leverage for Planning

November 1998



Started 1 project

● Leverage for Scheduling

August 1997



Started 1 project



## 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.

November 1995



Started 1 project



## 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 workstations

● Ported from Irix to Windows NT

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

● Used in the making of Mario 3D.

September 1993



Earned 1 award

● [Maritime Simulation Demonstration](#)

May 1993



Finished 1 degree at Johns Hopkins University

● [Masters degree · Computer Science](#)

December 1993



Earned 1 award

● [First Hubble Servicing Mission](#)

November 1992



Started 1 project

## ORBIS

An expert system for submarine simulation.

- Added support for local area network simulations (i.e. games)
- Added Distributed Interactive Simulation support for wide-area network simulations (wargames)
- Donned a submarine uniform and took part in two exercises like I was in The Hunt for Red October

October 1990



Started 1 project

## 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).

September 1989



Started 1 project

- Database Accelerator

May 1988



Joined various

- working for the man



Started 1 project

- DROID



Finished 1 degree at Massachusetts Institute of Technology

- Bachelors degree · Computer Science and Engineering

August 1987



Started 1 project

## 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 Machine.
- Cited in a PhD thesis.

May 1987



Started 1 project

● [START](#)

May 1984



Finished 1 degree at West Senior High School

● [High school degree · Iowa](#)

Inspired by [@nataliemarleny](#). Built by [@mathieudutour](#) using [Primer](#) and [JSON Resume](#).

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