# Paul M. Parks

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<https://www.parkscomputing.com/resume-of-paul-m-parks/>

<https://www.linkedin.com/in/paulmooreparks/>

<https://github.com/paulmooreparks/>

## ABOUT PAUL

I have delivered all shapes and sizes of software: graphical desktop applications, kiosk and point-of-sale systems, server applications, web applications, system services, command-line utilities, and APIs. I have also worked in professional services, where I focused on customer interaction during solution delivery. I have successfully led multiple geographically dispersed, culturally diverse development teams delivering mission-critical software to large customers.

I am a Singapore Permanent Resident since March 2022.

## cORE SKILLS

* Software project management in full life cycle of delivery from inception through architecture, design, development, testing, delivery, and support.
* Software-development experience across multiple platforms (Windows, Linux, Unix, web, DOS, mainframe) and languages (C#, C++, C, JavaScript, Java, x86 assembly, Basic, COBOL, Natural, among others).
* Communicating complex technical matters to a non-technical audience, as well as understanding non-technical business concerns and translating them into technical solutions.
* Leading remote, international, multi-cultural teams in software development projects.
* Understanding and respecting cultural differences in teams that span multiple countries and time zones.

## Professional Experience

### Customer Success Manager CloudCover Pte. Ltd.

Singapore  
August 2022 to November 2022

* Responsible for ensuring Code Pipes customers are successful at meeting their goals using the product. Advocate internally for the customer and their needs.

### Senior Manager Diebold Nixdorf Singapore Pte. Ltd.

Singapore  
September 2021 to August 2022

* Led a team of retail business analysts based in various cities across the Asia-Pacific region. The business analysts work directly with Diebold-Nixdorf’s retail customers to specify solutions in the grocery, fuel, convenience, specialty, and fashion retail sectors.
* Led a team of software engineers based in Singapore developing and maintaining Diebold-Nixdorf’s TP.Linux retail point-of-sale application.
* Active participant in the APAC Retail Professional Services management team, reporting to the director of APAC Retail Professional Services.

### Technical Consulting Senior Manager NCR Asia Pacific Pte. Ltd.

Singapore  
November 2017 to July 2021

* Consulted on multiple retail projects across the Southeast Asia sub-region from pre-sales through delivery.
* Liaised between NCR’s software engineering teams and in-region professional-services teams working directly with the customer to ensure that customer solutions were delivered accurately and in a timely manner.
* Worked directly with customers in the APAC region to identify and resolve issues.

### Senior Software Engineer NCR Corporation

Atlanta, Georgia, USA  
March 2016 to October 2017

* Led local and offshore development teams in the design, development, testing, and delivery of self-checkout and self-service kiosk software for the retail and postal industries.
* Projects included delivering self-checkout solutions for NCR’s largest retail account and for a national post office service.
* Worked directly with customers to gather, understand, and clarify requirements.
* Created estimates and project plans for software development projects.
* Provided mentoring and consultation to development teams.

 Kanban, Lean Software Development, Technical Leadership, Team Leadership, Project Management, C#, JavaScript, C++, COM, XSLT, HTML, XML, Web services, REST, SOAP, Windows (XP, 2003, 7, POSReady 2009)

### Senior Software Engineer Bsquare Corporation

Atlanta, Georgia, USA  
January 2016 to March 2016

* Worked on-site at Coca-Cola designing and developing features for the Coca-Cola Freestyle beverage dispenser.

 C++, Windows CE 6.0 Embedded, Win32 API

### Software Technical Lead SYSGENS, Inc.

Atlanta, Georgia, USA  
January 2003 to December 2015

* While contracted to NCR Corporation, led local and offshore development teams in the design, development, testing, and delivery of point-of-sale, self-checkout, and self-service kiosk software.
* Designed, developed, maintained, documented, and provided training for key software components and APIs.

 C++, C#, C, .NET, JavaScript, XSLT, HTML, XML, Web services, SOAP, REST, Windows (XP, 2003, 7, POSReady 2009), Unix, Windows, UX/UI, Sockets

### Application Developer Vorsite, Inc.

Seattle, Washington, USA  
March 2002 to December 2002

* Developed intranet web applications (C#, .NET) and native Windows services and utilities (C++) for Microsoft, a Vorsite contract customer and partner.
* Developed client-side browser controls targeting HTML 4 and DOM 2 browsers, for ASP and ASP.NET applications.

 C++, C#, .NET, JavaScript, XML, XSLT, HTML, Web services, SOAP, Windows

### Senior Design Engineer Intava, Inc.

Bellevue, Washington, USA  
January 2001 to November 2001

* Designed and implemented server products for the wireless Internet industry.
* Implemented HTTP specification in Java to provide a web-application server platform focused on mobile phone development.
* Implemented XML-RPC specification in Java to support integration of Java server code with multiple web servers via an RPC interface.

 Java, C++, C, JavaScript, HTML, XML, XML-RPC, XSLT, WAP, HTTP, Windows, Linux, Unix

### President Parks Computing Services, Inc.

Atlanta, Georgia, USA  
January 2000 to December 2000

* Developed a Java servlet system to separate complex JavaScript validation logic from presentation markup, as well as to ease cross-browser web page development, via server-side processing of XHTML web pages.
* Created Java servlet to generate report data selection forms for browser-based application.

 Java, JavaScript, HTML, XHTML, XML, XSLT, Windows

### Software Engineer SYSGENS, Inc.

Atlanta, Georgia, USA  
February 1994 to December 1999

* While contracted to NCR Corporation, developed software for NCR’s Advanced Checkout Solution (ACS) grocery point-of-sale systems, both platform and application.
* Designed and developed a new user interface for NCR’s ACS (Advanced Checkout Solution) to support the NCR 7450 DynaKey.

 C, C++, DOS, Unix, Windows, HTML, XML, UX/UI, Sockets

### Developer I PC DOCS, Inc.

Tallahassee, Florida, USA  
February 1993 to January 1994

* Designed and developed features for a DOS-based document-management system using the C programming language.
* Served as technical liaison to customer-support department.
* Provided remote and on-site technical support.

 C, DOS, Windows

### Computer Programmer Analyst Executive Office of the Governor (Florida)

Tallahassee, Florida, USA  
December 1989 to January 1993

* Designed and developed features for the Legislative Appropriations System/Planning and Budgeting Subsystem (LAS/PBS), a mainframe-based system written in Adabas Natural and COBOL.
* Worked in the Personal Computer Support unit developing and maintaining PC-to-mainframe data transfer utilities in Microsoft Professional BASIC to create Lotus spreadsheets from mainframe-resident state budget data.
* Developed a character-based, windowed user interface library for general use in applications.

 C, Visual Basic, Microsoft Professional Basic, COBOL, Software AG Natural, ADABAS, Windows, DOS

## Volunteer Experience

### IT Management, Web Design, & Digital Marketing Padma Jairam – Counselling Psychologist

Singapore  
April 2021 to present

* Designed and maintained web site and web content for Padma Jairam - Counselling Psychologist, a psychotherapy practice that began serving clients in June 2021.
* Worked with owner to define digital marketing strategy, then executed that strategy to build a client base. After starting marketing in late April 2021, achieved a full schedule of clients by the first week of June 2021.
* Set up and managed IT resources for the business, including Microsoft 365, cloud tools such as OneDrive and SharePoint, and client relationship management tools (CRM).

 HTML, CSS, WordPress, Microsoft 365

## A Small Selection of Personal Projects

### Set-Associative Cache in C#

<https://github.com/paulmooreparks/SetAssociativeCache>

July 2020 to present

A C# implementation of a set-associative cache with multiple cache-replacement policies (LRU, MRU, LFU, etc.). There is a basic generic cache interface, *ISetAssociativeCache*, which is parameterized by the key type and value type of the items stored in the cache, much like the *IDictionary* interface. Implementations of the interface may use different policies for when items are evicted from the cache, such as least-frequently used or least-recently used.

### Maize Virtual CPU

<https://github.com/paulmooreparks/>

March 2020 to present

This project implements a 64-bit virtual CPU called "Maize" on a library that enables the creation of virtual CPUs (called "Tortilla"). See the file [Maize.txt](https://github.com/paulmooreparks/Tortilla/blob/master/Maize.txt) for more details on the Maize CPU assembly language and the simple operating system that runs on it.

The near-term goal is to implement a set of devices to bridge from the virtual CPU environment to the host machine, create a "BIOS" layer above the virtual devices, implement a simple OS and a subset of Unix/Linux system calls (interrupt $80), and finally port a C/C++ compiler (likely Clang or GCC) that will generate Maize machine code.

### Conway’s Game of Life in JavaScript

<https://www.parkscomputing.com/webapps/conways-game-of-life/>

2015

An example of how to write high-performance JavaScript code using the HTML5 canvas element to implement Conway's Game of Life, which is demonstration of cellular automata simulating living organisms.

### Dragsens, a Console-based Drag Sensitivity Utility

<https://www.parkscomputing.com/applications/dragsens/>

2015

A simple utility called dragsens that will allow users to change the number of pixels the mouse has to travel before a drag operation is initiated. This utility is used by private users and by systems administrators to prevent accidental drag-and-drop operations.

### Pbrain Language Interpreter and Compiler

<https://www.parkscomputing.com/applications/pbrain/>

2004

The pbrain programming language is an extension I made to the [Brainf\*\*k](http://www.muppetlabs.com/~breadbox/bf/) programming language that adds the ability to define and call procedures. Site linked above has an interpreter implemented in C++ and a .NET compiler implemented in C#.