

Resume

Donnie Cameron's Resume

Donnie Cameron
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Objectives

Large-Scale Systems Development

To design, implement, and deploy systems that host billions of unstructured or loosely-structured records and that support millions of users

Exposure to Advanced Programming Languages

To gravitate toward Lisp and toward newer programming languages that produce reasonably fast code while efficiently supporting multi-paradigm programming (including functional programming), lexical closures, meta programming, homoiconicity, and other advanced features.

Neural Network Engineering

To go beyond the neural network framework I've developed, become proficient with the latest machine-learning frameworks, such as Tensorflow and Pytorch, to be able to develop neural networks that can paint, make music, write original text, and navigate the world.

Programming Languages

Current

- ▶ Common Lisp
- ▶ Python
- ▶ PHP
- ▶ JavaScript
- ▶ Elisp
- ▶ SQL
- ▶ BASH, SH, Shell Scripting

Past

- ▶ Perl
- ▶ XQuery and XPath
- ▶ LiveScript, JavaScript, JQuery
- ▶ 6502/6510 Assembly Language
- ▶ Many others in the distant past, including C, C++, TCL, and Scheme

Platforms

- ▶ Linux (Ubuntu, Kubuntu, Mint, Red Hat, Debian, Mandrake, SuSE, and many more)
- ▶ FreeBSD, Solaris, and SCO Unix
- ▶ AWS (Including EC2, ALB, Auto Scaling, Lambda, S3, Glacier, VPC, Route 53, IAM, RDS, DynamoDB, Redshift, Snowball, CloudFront, and API Gateway)
- ▶ Docker

Databases

- ▶ MySQL
- ▶ PostgreSQL (my favorite)
- ▶ Mark Logic Server (native XML database)
- ▶ Berkeley DB XML (native XML database)
- ▶ Oracle
- ▶ DynamoDB

Server Applications

- ▶ Apache, Apache Virtual Hosts, and many other Web servers
- ▶ Socialtext, TWiki, Confluence, Drupal, WordPress, Wiki.js, and many other wikis and CMSs
- ▶ Git, Subversion, and other revision control systems
- ▶ Sendmail, Postfix, Exim, Dovecot, and other server-side mail software
- ▶ Docker, Virtual Machines, VMWare, VirtualBox, QEMU

Natural Languages

Fluent in English and Spanish. Outstanding communication skills in both languages. Can write and assemble large complex documents such as specifications and requirements that are organized, detailed, and clear. Prolific Wiki contributor.

Experience

Never had a break in employment

Director of Engineering (USA) at Eros Now

Present - January 2015

Eros Now is a global service with tens of millions of active users and aims to be the Netflix of Bollywood. I've been at the center of all major architectural changes since I joined the company, including many changes to improve the scalability and security of our Web site and API services. For example, I moved us to Akamai and then to Verizon Edgecast, moved our production environment into a AWS VPC (including migration to the second-generation machine types), integrated our systems with a DRM provider, and paved the way for auto scaling. I worked on the back end to provide new features, including Recently Watched, Continue Watching, DRM Download, and 14-day Trial. I developed a test framework for the APIs, with continuous integration, and a dockerized development environment. Programmed extensively in Python, PHP, Perl, Common Lisp, and to a lesser degree, JavaScript and NodeJS. Configured services of all types, including MySQL, Apache, HAProxy, Varnish, Memcached, EC2, ELB, S3, Route 53, DynamoDB, Redshift, Lambda, CloudFront, Akamai, Edgecast, Uplynk, Jenkins, and New Relic. I'm the technical backstop at Eros Now.

Senior Software Engineer at Socialtext / Symphony Teleca

December 2014 - November 2012

Developed new features for Socialtext, the most advanced wiki software in the world. Most of my programming was in LiveScript (like CoffeeScript) with JQuery, Modern Perl, and PostgreSQL. All new features were build as RESTful Web services with front end code that uses those Web services. Extensive use of JSON. Began a move to slowly replace the Perl back end with Node.js, so we could use LiveScript on the back end. Iterative, agile, test-driven development using GitLab, a Kanban board, and daily stand-up meetings.

Senior Software Engineer at Vindicia

October 2012 - October 2010

Developed software to implement new features for CashBox, Vindicia's flagship product. Worked with Oracle and Perl. Deployed 6 major new features. Deployed dozens of minor features and bug fixes. Crafted hundreds of scripts. Led migration of production systems from RPath to RedHat Linux.

Senior Programmer Analyst at R.R. Bowker L.L.C

October 2010 - October 2004

- ▶ Developed systems that manage tens of millions of records and that handle millions of requests per day.
- ▶ Developed a Web application that uses advanced techniques including artificial intelligence, text-vectorization, and word-relevance techniques to extract meta data from the full text of books. (Perl Catalyst, SBCL Common Lisp, Mark Logic XQuery.)
- ▶ Was the lead programmer and designer for the BIP-2 (Books In Print 2) Query Service, which powers the Books In Print 2 Web site and other products.
- ▶ Was the lead programmer and architect for migration of Global Books In Print product to a native XML database. Global Books in Print is the standard catalog of all books in print. (modperl, Java, XQuery, XSLT, CSS.)
- ▶ Was the lead programmer for the development of the BBAS product, which is a complex product that allows libraries to evaluate their book collections. (Perl, SQL.)
- ▶ Architect and lead programmer for RESTful web services for book meta data, including an dynamic image service. (Perl, XQuery, JavaScript, ImageMagick.)
- ▶ Contributed code for rclweb.net: all browsing areas, all My Account and settings areas, all interfaces to the Oracle and Mark Logic databases, database design. (PHP, Perl, XQuery, SQL.)
- ▶ Developed hundreds of utilities and modules to accomplish various administrative tasks. (Perl, PHP, XQuery, C, C#, ASP, SQL, others.) * Configured many Linux hosts that are currently in production and many more that currently serve as development and staging platforms.
- ▶ Instituted a wiki that the entire company uses as a knowledge base, and as a planning and collaboration platform.
- ▶ Introduced a Subversion revision control repository and helped move all project development to this repository.

Technical Editor and Programmer at Microsoft Corporation (Contractor)

January 2002 - March 1997

Edited (and, in some cases, contributed code) for the following publications:

- ▶ Programming Windows with Visual Basic .NET (Charles Petzold)
- ▶ Microsoft Visual C# (Core Reference) (Mickey Williams)
- ▶ Programming Microsoft .NET XML Web Services (Damien Foggon et al)
- ▶ Microsoft .NET Compact Framework (Core Reference) (Andy Wigley et al)
- ▶ 101 Microsoft Visual Basic .NET Applications
- ▶ Advanced Windows, 3rd Edition (Jeffrey Richter)
- ▶ Network Programming for Windows (Ted Pattison)
- ▶ Inside Direct3D (Peter Kovach)
- ▶ Programming Bots, Spiders and Intelligent Agents in Visual C++ (David Pallmann)
- ▶ Programming Distributed Applications with COM and Microsoft Visual Basic 6.0 (Jones and Ohlund)
- ▶ Microsoft Visual J++ 6.0 Developer's Workshop (Shannon Dunn)

President and Founder at Mindrigger Technologies

2001 - 2000

Developed Photolacer, encryption and steganography software that was introduced at COMDEX in 2001.

Director of Operations and Lead Developer at NetStar, S.A., Argentina

1996 - 1994

- ▶ Designed and built a working prototype of an intelligent multipurpose terminal based on an Intel 486 chip using DesignCAD 3D and later AutoCAD.
- ▶ Successfully planned, developed, scheduled, and executed the education of over 9000 computer-illiterate operators.
- ▶ Using Visual Basic and C++, I developed a proprietary GIS system (Cordoba, Argentina) to keep track of the points of sale.
- ▶ Planned and developed (making heavy use of Microsoft Access, Visual Basic, and Microsoft Office) an integrated system that tracked or managed the following operations: Inventory, Training, Hardware and Software Testing, Inter-Office and Inter-Corporate Communications, Operator/User Database (10 operators, 9000 users).
- ▶ Located a buyer and negotiated the sale of NetStar for \$6.2 million dollars.

President and Lead Developer at Home Partner, Inc.

1994 - 1992

Developed a home automation system prototype that permitted electrical appliances to share memory and processor resources of a PC allowing for conservation of energy, security, safety, and comfort in the home using the home's existing electrical wiring.

Engineering Laboratory Technician at United States Navy, Nuclear Power Program

1992 - 1988

- ▶ Responsible for maintaining the proper nuclear water chemistry of ship's propulsion plant and for radiological controls.
- ▶ Computerized work lists, forms design, and other paperwork, automating a significant number of processes in the optometry lab at the U.S. Naval Hospital in Naples, Italy.
- ▶ Computerized the inventory and tracking of radiological controls instruments utilizing a natural language system. The database could be queried and updated in simple English sentences.
- ▶ Served in the Red Sea during the Gulf War.

Education

Naval Nuclear Power School

1988 - 1990

- ▶ Mechanical Operator, Nuclear Propulsion
- ▶ Engineering Laboratory Technician (Nuclear Water Chemistry and Radiological Controls)

Louisiana State University

1986

Computer Science

University of Maryland

1985

Computer Science

References

References available upon request.

Online Presence

- ▶ IBM DeveloperWorks
 - ▶ [How XQuery Extends XPath](#)
 - ▶ [6 tips for optimizing a native XML database](#)
- ▶ [Quora](#)
- ▶ [LinkedIn](#)
- ▶ [GitHub](#)

Notes

- ▶ See the online version of this resume and download it in your favorite format at <https://sinistercode.com/public/donnie/resume>
- ▶ This resume is available in the following formats:
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