

Rhett Prince

Email: rhettprince@comcast.net

Phone: 404-217-5877

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E: rhettprince@gmail.com

Ph: 404-217-5877

Detailed Career History

05/2020 - Present Python Developer

Learned modern Python programming, by coding Flask App to consume stock market data API, present stock options analysis metrics, and record trade data in SQL Database.

Next, migration to Django app and Django web service.

Used: Python, flask, SQL Alchemy, SQLite3, and API from Tradier.com, GIT, GitHub

2011 - 2020 Provided technical solutions to clients in the following areas:

Developed projects with Python and Pandas to analyze Stock Market Data

Applied data science to stock market options trading as a Full-time trader

assisted companies with business analyst tasks: planning, forecasting and process development

Delivered "How To" paper on using Bar Codes in Java applications

Migrated systems to Windows 10 and educated senior users on "How To's" in Windows 10

Developed protocol to clean ransomed ware and adware from PC's

Assisted local food bank with PC and Network Administration

Study data analysis and algorithms used in stock market trading,

Studied systems for delivering online stock trading education,

Studied menu profitability in restaurant operations

Studied telephony-based survey response gathering operations,

Surveyed software for visually impaired users,

Gathered requirements for benefit verification kiosk for dental offices.

Deliverables such as project plans, cost estimation spreadsheets and use case definition for each activity were generated with Microsoft Office Suite Applications such as Word, Excel, Power Point, and Access. Some required advanced tools such as SQL Server T-SQL code, SSRS, SSAS, or SSIS to complete the objectives. New skills such as WordPress Website Authoring were developed.

10/2009 - 11/2010

Senior BI Analytics Developer, SQL Server 2008 DBA and C# Software Engineer

Angel Food Ministries Monroe, GA

40+ hours per week \$50,000 per year part-time salary

Achieved main goal of preparing the enterprise to handle a large increase in business by consolidating all reporting functions into a single dashboard of reports such that a streamlined information flow could be achieved.

The following projects were completed:

Developed Enterprise Resource Planning migration plan to consolidate various IT systems into single ERP solution,

Systems included sales website, Interactive Voice Response Phone System, warehouse and accounting databases,

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Specified requirements and evaluated vendor proposals,
Developed actionable reports and accurate sales forecasting model.
Developed logistics and shipping models to service three-layer fulfilment.
Deliverables were prepared with Microsoft Office suite, SQL Server 2008 Reporting Services.

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01/2009 – 10/2009

Independent Software Vendor

Client: Veterans Affairs Medical Center

Decatur, GA

20+ hours per week \$40 per hour

Awarded contract to update various software used in vision rehabilitation research.

Developed contrast sensitivity vision test using CSharp.NET.

Enhanced virtual reality Vizard System Object Oriented applications USING Python.

Produced all user manuals and technical manuals.

Worked with scientists to develop new requirements based on current research projects.

07/2006 – 12/2008

Vice President of Technology

New Healthcare Management Group

Atlanta, GA

40+ hours per week \$60 per hour (\$120,000 per year)

Hired as a software contractor and advanced to Vice President of Technology.

business unit budget was about one million dollars per year

staff comprised of a team of seven including 4 software engineers and 3 Administrators.

Accountable for business processes including partner relationships with vendors and clients, vendor relations for telecom services and data services, and IT operations of call center and 24/7 data center.

As Software Development Manager, I reconstituted IT group by hiring contract developers and database administrators,

Instituted source code control and development processes, and

Architected an asp to ASP.NET conversion. The new system focused on accounts payable, accounts receivable and member services

All software was delivered on the Microsoft Server Platform and used SQL Server 2000.

10/2005 - 04/2006

Software Engineer

The Proven Method, Atlanta, GA

40+ hours per week \$42.50 per hour

At the Proven Method I was assigned to several projects.

Nalco Project:

Helped with simple maintenance of chemical plant monitoring system.

Advised management on feasibility and complexity of .NET projects during proposal phase.

Developed enhancement estimates for a reporting application.

CompuCredit Project:

developed a network service availability monitoring system that tested a telephony server and sent alerts as appropriate.

Gathered Requirements.

Designed objects and communications protocols.

Used .NET Remoting to host Components for Remote activation.

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Coded entire effort.
Wrote Deployment and User Guides.

06-2005 - 10-2005

Microsoft Dotnet Technical Architect
Sub-contractor to Avanade on BellSouth Carbon.NET Program.
40 - 50 hours per week \$45 per hour

carbon.NET was a program that use Microsoft dotnet web services and JAVA J2EE web services configured into an ESB-SOA (Enterprise Service Bus, Service-Oriented Architecture) application. In my role I performed the following functions: developed Build Scripts, developed Test Scenarios, developed Test Services, used NUnit and JUnit in Test Driven Design (TDD), developed strong named library for Microsoft Enterprise Library application blocks, administered BizTalk 2004 configurations, and worked closely with J2EE developers on Dotnet to J2EE web service interactions.

08/2004 - 12/2004

Independent Software Vendor
Client: Atlanta Community Housing Resource Center, Atlanta, GA
20+ hours per week \$40 per hour

Awarded contract to develop a Home Assessment Suite to measure Aging in Place criteria. This suite of applications merged a checklist of criteria with photographs of home interiors and exteriors. The PocketPC Application collected the observations, the inspector snapped digital photos, and the desktop Application merged the observations and images into a printed document. As a full-service vendor, I wrote the proposal for the project with program plan, management plan, and pricing plan, architected desktop and PocketPC Applications, designed the Database, coded the apps, wrote user manual and technical manual, and performed testing of the suite.

01/2003 - 12/2003

Graduate Research Assistant
Advanced Computing Laboratory, Southern Polytechnic State University, Marietta, GA
20 hours per week

Wrote grant proposal for NASA [Living with A Star Program] that studied satellite imagery of space weather (including sunspots, solar wind and Aurora Borealis)
Developed Linux cluster to use parallel C/C++ algorithms

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07/2000 - 10/2001

Senior Software Engineer,
Pivotal, E-Commerce Division, Atlanta, GA
40+ hours per week
82,000 per year

Developed core technology for Pivotal eSelling 2000 platform using Microsoft technology.
Wrote technical literature to assist web developers in solving E Commerce problems with Pivotal eSelling 2000 platform. Platform consisted of 5 Engines with 25 objects and over 500 methods and properties that provided services of: Configurator, Item Cataloging, User Management, Session Management for web farms, and Web publishing for XML and XSL data.

my specific accomplishments were:

developed VB and C++ COM+ Components for Windows2000 E-Commerce systems
developed SQL Server 2000 database scripts backup, restore, and upgrade scripts to solve localization dependency problem

Used Transact SQL, SQL-DMO and ADO 2.6 XML

used DTS packages to manage database seeds

used InstallShield to generate Install Packages

owned the Release to Manufacturing process

authored API guide for Pivotal eSelling platform.

API Guide presented VBScript and JScript sample solutions to many business problems solved by PIVOTAL eSelling Platform.

01/2000 - 07/2000

Technical Project Manager - Lead Software Engineer,
Internet Security Systems Atlanta, GA
40+ hours per week
70,000 per year

Produced initial version of Check Point RealSecure, a product that communicated detected intrusions to CheckPoint Firewall-1 rules engines.

Managed all details of getting a two-year multi-vendor project wrapped-up and shipped in Sun Solaris WindowsNT cross platform development environment.

Used PKI Infrastructure.

Worked with former contractors, current build teams, and customer in Israel.

Worked to solve encryption library compatibility problems.

Solved problems with attack vulnerabilities.

09/1999 - 12/1999

Senior Software Engineer,
Carepointe Research, Atlanta, GA
Healthcare Industry a division of the Picker Institute
40+ hours per week
68,000 per year

Developed workflow for data processing of customer survey studies. the first objective was to develop the processes to take hospital patient lists and generate sample patient mailing lists.
Designed patient survey data collection center.
Processed raw data files from over 600 different hospital computer systems.
Reduced a task that took thirty 30 people six 6 weeks by hand to a computerized process requiring only four 4 hours.

03/1999 - 09/1999

Senior Software Engineer,
nFront Atlanta, GA
40+ hours per week
63,000 per year

Designed and developed Real Time processing connections for internet banking applications using private FRAME RELAY TCP/IP networks with WINSOCK.
Developed ASP Application code that connect banking applications to remote bank processors.
designed and built Real Time processing components for internet banking web applications.
Developed ATL/STL C++ COM components
Used a component stack architecture like OSI model to communicate via TCP/IP/Winsock to remote bank processors.
Wrote VB and ASP test applications

04/1998 - 03/1999

Senior Software Engineer,
BISYS Marketing Solutions, Atlanta, GA
BISYS is Banking Information systems
40 hours per week
63,000 per year

Produced 24 x 7 Credit Bureau Server system to acquire credit reports from all three Credit Bureaus and to render credit application decisions in less than 45 seconds per application on a modem-based system.
Developed MFC C++ multithreaded application architecture. Used Oracle 7.x databases.
Began migration to Microsoft COM Technologies.
Converted old modem-based system to TCP/IP Sockets Solution.
Used Rapid Application Development process to develop a multithreaded C++ credit card application processor.

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Began migration from monolithic designs to COM/DCOM components.

01/1998 - 03/1998

Software Engineer,

GE Capital, Atlanta, GA

40 hours per week

62,000 per year

Converted an IBM OS/2 3270 terminal emulation screen scrapper application to VB 5.

Programmatically converted OS/2 help files to HTML pages.

Recovered many reporting REXX scripts.

Used crystal reports for many reporting tasks.

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09/1997 - 12/1997

Software QA Engineer Test Engineer,

Equifax, Atlanta, GA

40 hours per week

\$40 per hour

Designed test data for an international Credit bureau implementation for Mexico.

learned PERL to programmatically generate test data sets.

Evolved process from hand-typing data to programmatic test case dataset creation.

Used Segue QA Partner to develop test scripts.

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01/1991 - 07/1997

Software Quality Assurance Manager
Iterated Systems, Inc., Atlanta, GA
40+ hours per week
\$55,000 per year

Iterated Systems Inc created Fractal Image Compression technology. Its commercial products were Image Processing SDK Platforms for stills and videos. As the company grew from about 20 to over 150, assignments encompassed all challenges of growing an organization to support the full software Design life cycle (SDLC) for both still image compression SDK's and internet video compression CODEC's. My main overarching assignment was to provide PhD Mathematicians environments to bring scientific research from theory to deliverable products in still and video image compression market. In serving at Iterated Systems for 6.5 years I functioned in many roles: Software Engineer, Technical Support Manager, Software QA Manager, IT Manager, and Software Configuration Manager.

03/97-07/97 Developer II C++ developer
C++ Developer on the ClearVideo product team

01/96 - 03/97

QA Manger II, Video CODEC's
QA manager for streaming video products.
Worked on Win95 Microsoft and Apple platforms
Build master for UNIX, Microsoft, and Apple development toolsets
Source code master
Test bed manager
Managed three contractors
Produced RTM to Oracle and to Real Networks (Real Video CODEC)

01/94 - 01/96

IT Manager
Procured over \$2,000,000.00 of IT Infrastructure
UNIX Sys Admin, Solaris, IRIX, AIX platforms
Backup and account administrator
Novell 3.12 Administrator OS/2 & WindowsNT3.51, Windows 3.11, Windows95
Managed four technicians that serviced 150 users and over 300 computers
Moved company to larger office
Worked with extremely heterogeneous computational environment including simple PC's to Complex Parallel Processing Computers

01/93 - 12/93

QA Manager I, Still Imaging SDK's
Wrote QA test application to test all functions of our Decompression SDK
Wrote QA test application to test all functions and parameters of our compression platform
Developed test plans and procedures for automated QA of SDK's.

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Hired and Managed two QA Engineers and Co Op student.

- QA Engineer on NIST research grant.

05/91 - 12/92

Product Developer I

Converted 286 self modifying assembly code to work under Windows 3.0

Wrote framework for software only compression

Used DOS extenders to grow developers' environments

01/91 - 05/91 Technical Support Manager

Provided second level tech support to internal compression services group

Hired new tech support reps

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10/1989 - 11/1990
SOFTEK, Columbia, SC
Service Manager
40+ hours per week

Managed help desk and customer technical support.
Lead a group of three technicians doing PC repairs and upgrades
Guided management in mother board and another component selection

07/1989 - 09/1989
PMSC -Policy Management systems corporation), Blythewood, SC
Worked with group from Finland to produce software for remote salespeople
Software quoted annuities products for Finland using OS/2

09/1989 - 12/1989
Adjunct Instructor
Midlands TEC, Columbia, SC
10 hours per week

Taught courses in the Electronics Engineering Technology Department including:
Electronic Circuits.

03/84 - 07/89
NCR Personal Computer Division, Liberty, SC
40+ hours per week
\$36,000 per year

As a hardware design engineer for two years and a software engineer for three years,
I was honored with three Awards for outstanding Achievement and Excellence.
As a Software QA Engineer, I lead the following projects:
ROM-BIOS Compatibility QA Engineer Designed and developed application test suite to prove
compatibility of CBIOS and ABIOS used in NCR Personal computer products
Lead two other developers
Provided third level technical support
Participated in vendor certification inspections of IOMEGA and Phoenix Technologies
Expert in Intel 8039 and 8042 controllers for keyboard and mouse signal processing

As a Hardware Design Engineer, I designed the following hardware items:
Wrote Procurement specifications for serial port card, video card, and mother boards.
Produced external tape backup system for NCR Personal Computers.
Produced XT motherboard to embed inside ATM machines.
Produced cost reduced SMT technology mother boards
mastered the following technologies: C, MASM, IICE in-circuit emulators for Intel 386
processor

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03/1983 - 06/1984

Adjunct Instructor,

Tri-County Technical College, Pendleton, SC

20 hours per week

Taught courses in the Electronics Engineering Technology Department and the Science Department including: Physics, BASIC programming, DC Circuits, AC Circuits, Electron Devices, Electronic Circuits, and Operational Amplifiers.

Summer 1982 Research Assistant at the Naval Research Laboratory in Washington D. C.
Studied radiation effects in sub-micron gate length MOSFET transistors.

Summer 1981 3M Technical Ceramics Product Division, Laurens, SC
Performed QA tests and measurements of in-process materials.

End of Career History

Program Review at Psychological Studies Institute

Goal of education was to learn about vocational counseling assessment tools and psychological appraisal assessment tools.

Course Work

Vocational Counseling

Used MBTI, Keirsey, CISS, SDS and Career Direct to assess client's skills, knowledge, aptitudes, and values. Considered relation between motivational gifts (7 dimensions, Major/Minor), RAISEC (6 dimensions 3 major), and MBTI Types (16 classifications).

Psychological Appraisal

Project on the Leiter-R test of intelligence. Studied test construction with Computer Adaptive Tests CAT. Exposure to: GAMA, and Shipley Institute for Living Scales. MMPI-2 and 16PF.

Introduction to Counseling

Paper on: Consulting vs. Consultation in industry and medicine

Ethics

Topics: Office practice, informed consent, boundaries, and cultural diversity

Interpersonal Skills

Gained Competency in the Carkhoff model of Helping. Heavy focus on emotions with external and internal causes Human Resource Modeling. You feel (negative emotion), because You cannot master some skill, knowledge, or emotional control.

Methods and Models of Integration

Analysis of cases from texts. How to approach problems from a spiritual and secular positions.

Personal and Spiritual Life of the Counselor

Writings on: Understanding the Kingdom of God, Spiritual Disciplines, and Personal Mission statement: Statement of purpose, Plan to achieve goals, Assessment of progress to date.

Program Review of SPSU master's in software engineering

Goal of completing MS degree is to be qualified for an executive level position in large IT companies. Capstone Project studied many aspects of Enterprise Architecture. All class projects were slanted toward bioinformatics in some manner. Also, applied personality appraisal instruments to Human Computer Interaction. (SWE 6783)

Research in cluster computing and image processing

Wrote research grants in the areas of parallel computing and data visualization for NASA Living with a Star program. Proposal suggested using Windows Media API to develop a visualization tool for Ultraviolet Images of the Aurora. Studied cluster and grid computing. Used PVM/MPI to construct a Linux Cluster. Technologies: Windows Media Encoder, Microsoft Computational Cluster Technology Preview, ASP.NET, ADO.NET, SQL Server, Oracle 9i, C#, C/C++, Windows Media Services, Red Hat Linux 8, Java, JSP. HTML Authoring, Dreamweaver MX.

Capstone project centered around Enterprise Architecture

SWE 7903 Software Engineering Capstone

Project: Produce an Enterprise Architecture Web Portal, Proposal and Implementation.

Wrote RFP for a Usability Web Portal.

Software Engineering Electives

Electives with projects concerning Bioinformatics topics

CS 6563 Image Processing

Project: Meaningful metrics and algorithms for Biochip Microarray raw images. Used: C# to analyze signal-to-noise ratio, spot finding, and spot quality algorithms with respect to standard sample material and sub optimal starting sample cDNA. Produced a framework for analyzing and visualizing image metrics. Converted J2EE image processing framework to C#.NET.

CS 6153 Advanced Database Systems

Project: DDBMS and Bioinformatics A Review of New DDBMS Architectures and technical challenges. Studied systems used in the NCBI Entrez system (PUBMED).

CS 6163 Information Retrieval and Search Engines

Project: Information Retrieval and Search Engines in Medical Research Digital Libraries. NCBI Entrez Information Space. ASN.1, Neighboring documents, Hard Links, Protein structure similarity measures VAST, DNA/RNA/PROTEIN sequence similarity with BLAST.

IT 6473 Multimedia Applications

Project: Produced a multimedia application using handheld devices to assist living space assessors with data collection and multimedia reporting facilities. System is to be used in collecting information as to the accessibility of living spaces. Used Microsoft .NET and .NET Compact Framework (NETCF).

SWE 6783 Human Interaction Engineering

Wrote two papers on Meyers-Briggs Personality type indicator: How a user's MBTI type would influence their usage pattern of software in General, and Aspects of a user's MBTI should be considered when composing and presenting FAQ's. These considerations are necessary in personalization systems.

Software Engineering Core

SWE 6623 Software Engineering I

Contributed to requirements documents. Developed several SRS document templates both from class notes and IEEE 830. Produced an Office Supply Vending System. Technology: JSP.

SWE 6723 Software Engineering II

Project: Developed XCDF college department framework, a web-based college department management system Used ColdfusionMX, Dreamweaver, SQL Server2000, C#, and XML. Outstanding feature of this platform is the ability to print professor's door signs and bookstore bookshelf labels that are easy to read (accessible) for low-vision individuals.

SWE 6633 Software Project Management

Project: Price Checking Auditor for Hospital Billing Systems Used: VB6, C#, Transact-SQL. Lead group of young students non with English as a first language.

SWE 6743 Object Oriented Analysis and Design.

Learned Rational Rose Tools with Booch, Real Time, and UML notations.

Project: Design and specify a small college course registration system

SWE 6769 Software Metrics and Quality

Group project on using metrics in Decision making. Covered Statistics, CMM, Decision Theory and Game Theory. Used Deming Management method to Frame needs of metrics that are valid in the system under study. Parable of Red beads shows that measurements must account for variation and MUST be interpreted correctly with respect imperfections in the overall system. Other meaningful presentations involved metrics used to measure object-oriented development including Lorenz metrics

SWE 6883 Formal Methods in Software Engineering

Project: A file check-in check-out system specified with propositions, predicates, sets, relations, and functions. Professor (Dr. Tsui) posted our groups work as an example of excellence.

CS 5183 Object Oriented Programming, Java

Coded MVC SHELL for group project. Traffic Light Simulation. This was a basic JAVA (J2SE) language course with object-oriented design concepts. Audited Advanced JAVA class.

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Technologies and Tools

10+ Years SQL Server Experience T-SQL Programmer and DBA some Oracle 7 and 8
10+ Years C#.NET VB.NET Dotnet Technical Architect
10+ Years Microsoft Office, Word, Excel, Access, Outlook and Power Point
15+ Years C/C++ Programmer, Visual Studio and GNU GCC
10+ Years Web Technologies - HTML, css, JAVA Script, PERL, ASP.NET 2.0-3.5 PHP
2+ years Python, Pandas new Technologies
2+ Years JAVA
1+ Years Other Languages - .NET Compact Framework, Vizard cold fusion
3 Years IBM Assembly Language

Domain Knowledge

3+ Years Business Analyst - CRM, E-Commerce, Accounting, Logistics, Warehousing
10+ Years Marketing Platforms with Call Center Operations - Data and Telephony
2+ Years Bioinformatics with Big Data and Parallel Computing PVM and MPI
2+ Years Enterprise Architecture - ERP Specification, SOA and ESB's BizTalk 2002-2006
2+ Years Mobile Computing - Pocket PC
1+ Year Internet Security - Intrusion Detection and Firewalls
4+ Years CRM-Banking, Finance and Credit Reports and Loan Applications
6+ Years Image and Video Compression Products - Fractal Image Compression
3+ Years ROM-BIOS Compatibility and Embedded systems
2+ Years Hardware and System Design - Mother boards and End User Systems
7+ Years Investing Portfolio Management - Investing and trading Stocks and Stock Options

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