

## **Frederick Arters**

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### **Senior Software Engineer / Team Lead, EchoStorm Inc. November 2006 – Current**

Lead a team of software engineers in the development of adLib, a distributed video and data management system designed to ingest video from Unmanned Aerial Vehicles like the Predator. Directed the activity of the team responsible for the core services of the product including web services, data persistence, search and the user interface. Worked with product managers, architects and software engineers to organize the development in manageable iterations; providing, documenting and tracking weekly tasks for each member of the group. Preserved the continuity of the team and development process during several management changes.

Developer specific duties include front to back design and implementation of the web-based user interface, Java servlets and web-services client code using a variety of technologies such as Java J2EE, Spring, Sql2Java, HTML, JavaScript, CSS, AJAX, JSON, and JavaScript libraries ExtJS, Dojo, Google WebToolkit and OpenLaszlo. Followed a lifecycle of design from hand-drawn concept screens to a final collection of online design documentation, workflow diagrams and feature matrices to match provided requirements. Designed, tested and debugged the web-based client in multiple OS's and browsers. Researched and implemented emerging technologies and open-source projects then integrated them into the product. Additionally utilized variety of tools and technologies including Python, shell scripts, NetBeans, PhotoShop, CVS, Maven, GeoServer, iPhone SDK, xCode, Google Maps and Earth API, OpenLayers and World Wind.

- *Conceived and built a new framework for a web-based desktop consisting of small, independent applications running in the browser and communicating via a lightweight messaging system.*
- *Integrated client map technologies OpenLayers and NASA's WorldWind applet into the web user interface allowing users to see selected UAV paths in both 2D and 3D.*
- *Created functional prototypes of future products including a product to collaboratively analyze, tag video in real-time, via XMPP, using chat and "John Madden" style whiteboard tools.*
- *Co-founded the company.*

### **Programmer / Analyst, US Bankruptcy Court, Eastern District of Virginia July 2000 – November 2006**

Designed, coded, tested and documented a variety of systems for use among federal court units. Learned and implemented a wide variety of technologies, including OOP, thin-client/n-tier client-server application development, Windows TCP/IP socket programming, SOAP, Win32 API and more using Delphi v6 to 2006, Java and .NET.

- *Created / implemented a leave tracking system (ELMR), used in more than 70 federal court districts.*
- *Was awarded the 2005 US Courts Director's Award for excellence in Court Operations due to the success of the ELMR application.*
- *Additionally, designed and implemented a custom IM system, automated document to PDF conversion software and cash register software.*

### **Programmer / Analyst, Lillian Vernon Inc. April 1996 – July 2000**

Designed, coded, tested, documented and maintained new and existing business applications in a variety of computer languages including Delphi, Visual Basic, C, x-base, COBOL and more. Provided distribution center support for applications and hardware across in the production environment, through daily and periodic 24-hour on-call representation.

- *Implemented systems for inventory movement tracking, order entry in multi-vendor order system, error tracking systems, personalization work order tracking, personalization hardware operation and more.*
- *Learned all programming languages and technologies independently on the job with little or no training.*
- *Started as a Junior Programmer was promoted 3 times in 3 years to Programmer/Analyst.*

### **Computer Operator, Lillian Vernon & Beverly Enterprises Inc. July 1990 – April 1996**

Operated and oversaw all aspects of Computer Operations, including printer operations, job scheduling, monitoring system performance, new employee training and user support for all platforms.

- *Hired as a Junior Operator and promoted to operator after less than a year.*
- *Promoted to 3<sup>rd</sup> shift team leader after less than a year as Operator.*

**AAS, Tidewater Community College, 1995**