Fred Eisele

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TECHNICAL SKILLS Languages: Java, Clojure, Python, C/C++, XML, Antlr, SQL, Perl, JavaScript

Platforms: Netbeans, Eclipse, VisualStudio, Intellij, LightTable

Build Tools: Maven, Ant, Git, Leiningen, Omg, Netty

OS & VM: Microsoft Windows 7, GNU/Debian Linux, Android, JVM, node.js

PROJECT SKILLS Production level architecture and API design

Development of complex middleware for mobile and ad-hoc networks

Rapid data-centric and model-based parallel application development architectures

Project management and technical project leadership

Database schema design and administration Distributed programming and algorithms

MS Computer Science, Vanderbilt Univ. in-progress **EDUCATION**

BS Mechanical Engineering, Mich Tech Univ, 1982

EXPERIENCE

Senior Staff Engineer Advanced Vehicle Make: DARPA

Vanderbilt ISIS Implementing elements of a collaborative product assembly design frame. This 2007 - Present includes a geometric linkage assembler and adapters for open-source and proprietary CAD packages. The distribution mechanism is speculative and asynchronous.

> Android Mobile Middleware (Transformative Applications): DARPA Developed opportunistic speculative data distribution middleware for Android. Developed rapid prototyping mechanism for user experience and data distribution services. This system employed code generation of data-store, distribution policy, and a reference user interface, from models.

User Interface Validation with Rapid Prototyping (Future Combat Systems): ARMY Developed a layout manager service, a layout browser, and custom widgets. Examples of custom widgets are: a custom map widget supporting mil-std 2525b symbology, which included development of a set of gestures for generating mil-std symbols on touch screens; a custom widget for live streaming of camera feed suitable for robotic control; and a custom 3D widget for viewing simulated vehicle movement.

Project Coordinator General Motors Research 2006-2007

Mining the Neural Code

Conducted research in advanced temporal data mining algorithms. Ported and adapted algorithms into multiple engineering environments. Contributed to technology improving clarity, stability, and scalability of the data prospecting products. Discovered and characterized neuron circuits develping in-vitro.

Chief Developer Netarx 1998 - 2006

Network Monitoring and Management System

Researched and applied technologies to the development of a remote network monitoring and management system, including: XML-based technologies for network protocols, system control, and archival storage of network data. Developed statistical techniques for discovery and tracking of anomalous network and server phenomenon. Developed project management processes and delivery techniques incorporating asynchronous dispatching to customer and technical/service personnel.

Developer GM/EDS 1986 - 2000

Engineering Software Die Casting Analysis System

Manufacturing process analysis system used in reducing scrap rates in large complex castings, reducing scrap rates and saving the company millions of dollars.

Sunrayce '93'

Supported corporate public relations and recruiting by providing engineering and logistics services to university and company teams.

REFERENCES AVAILABLE UPON REQUEST