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## Hoan Chau

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### Background

- Sr. Project Designer*      NRE Electronics, Calgary      2/2017 – 2/2020
- Mobile app for Android and iPhone using React Native to monitor assets using Google Maps
  - Full Stack development: MySQL, PHP, Javascript, and HTML for company website
  - Embedded development for event recorder and geolocation apps using C
  - Desktop development of GUI, protocols linked to embedded systems using C# with inheritance, threads, and events
  - DevOps
    - Install and administer SVN repo with notifications for code check-ins and locks
    - Administer company website generating weekly, monthly HTML reports
  - IDEs: VS 2015 and 2017, NetBeans, WebStorm, CCSv5, IAR, Android Studio, Xcode, NullSoft Scriptable Install System
  - Databases: SQLite, MySQL, SQL Server Express
  - Notables
    - Web server data recovery and restoration after hardware catastrophe
    - Implement SSL on company website using Lets Encrypt Certification
    - Initiated adoption of SVN to replace outdated version control system
    - Installed and administered Mantis Bug Tracker
    - Introduced and practiced Agile development: Scrum, TDD, regular demos
    - Created document for coding standards and best practices
- Lead SW Prog.*      Extreme Engineering, Calgary      10/2007 – 2/2017
- Develop suite of directional drilling desktop apps and libraries with VC++ for real-time processing and display. Applications utilized multi-threading, TCP-IP, file I/O, database connection, OOP, and GUI's
  - Develop initial Web Server using Node.js for Well Logging, TF, and Surveys
  - Created automation software to test PCBs, bays, probes from scratch using VC++
  - DevOps
    - Built Continuous Integration Server with MS Team Foundation Server to build, test, and deploy
    - Maintain Continuous Integration Server using Jet Brains Team City to build, test, and deploy
  - IDEs: VS 2005, 2010, and 2015
  - Databases: SQLite, MS Access, SQL Server
  - Notables
    - Increase MTBF of 400 to over 1k hours on Service Quality Team through EMI immunity, code optimization, hardware troubleshooting
    - Design shock, vibration GUI and integrate with plotting application
    - Expand Configuration for Pason Tool Kit Rental support software
    - Unified Mud Pulse and EM API's, GUI's
    - Integrated a Fortran module into the Drilling Receiver desktop App
- Contractor*      Paleo Entertainment, Orange County      9/2006 – 6/2007

- Modified the Half-Life 2 Mod to use Neandertals and Cro-Magnon content
- Setup game server
- Tools: Hammer, Steam, C++
- Databases: SQL Anywhere

*Programmer*    Agricultural Data Systems, Laguna Niguel    6/2006 – 6/2007

- Design, code, and maintain various labor tracking applications; FTP and data backup utilities; and custom modules; wrote technical documents; provide technical support
- Create system to trace food products to point of origin from scratch
- Languages: VB.Net, VBS, ASP.Net, VC++
- Databases: Access, SQLite, MySQL, SQL Server Express

*Programmer*    Point of View, Irvine    8/2005 – 5/2006

- Design, code and maintain UI, data modules, and classes for world integration tool; write and maintain technical design documents
- Build UI for procedural texturing; modify CXImage for 16-bit grayscale height bitmaps; write TDD for technical requirements certification (TCR) for code port from Xbox to Xbox360 for Blitz the League
- Tools: .Net, C++, Managed C++, XML, Perforce

*Software Eng.*    Mass Media, Moorpark    8/2002 – 8/2005

- Analyze minigame design and implement AI, physics, collision, camera movement, particle FX, scoring, and animation; optimize code; give and receive team input.
- Use quaternion math for rotation; model simple geometric shapes
- Titles: Muppets Party Cruise; Nicktoons: Movin' for PS2
- Tools: Visual Studio 6, C++, Visual C++, CVS, ProDG, Nintendo Nitro for DS

*Consultant*    SN Insurance Services, Inc., Agoura Hills    11/2001 - 4/2002

- Develop insurance claims online reporting UI: graphs, tables, filters, and menus
- Build cab installation for 3rd party graphing control
- Tools: ASP, VB6, VB script, SQL, HTML, Visual Interdev, ODBC, and ADO
- Database: Sybase 11

*Sr. Prog.*    CareDecision.net, Westlake Village    11/2000 - 9/2001

- Design and code decentralized data communication between PC's, PDA's, and router/server for point-to-point transactions; build installations; design and code multilayered applications for DB transactions on storage card; research
- Tools: VB6, Embedded Visual Basic 3.0, SQL, ADO, ODBC
- Database: Access, Sequitor's Codebase

*Programmer*    Veramark Technologies, Westlake Village    7/1998 - 11/2000

- Responsible for full development cycle for multiple client-server applications, OS's, and DB's; integrate 3rd party controls; build custom applications on demand; interface with client services daily
- Notables: Save 800k dollar contract; serve as stand-in supervisor
- Tools: VB4, VB6, C++, SQL, RDO, DAO, ODBC
- Database: SQL Anywhere, SQL Server 6.5, 7.0

## **Education**

*B.Sc Math*      California Polytechnic State University, San Luis Obispo      9/1993 - 12/1995

\* Senior Project: Numerical Analysis of Generalized Derangement Problem

*M.A Anthro*      California State University at Northridge      9/1999 – 5/2002

\* Cultural and Physical Anthropology

\* Special Studies on Globalization and Local Resistance

## **References**

\* *Provided upon request*