## DDH

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| ­ | EMPLOYMENT **Software Development Engineer, TSRI (Kirkland, WA)**  Jan 16 – present   * Configured network and servers for distributed/multi-tiers application with VMs (Nginx, JBoss, Tomcat) * Full-stack web application with Angular 1.5/2 and Java back-end * Incorporating test-driven and functional testing for web application for code quality improvement * Developed and augmented AI tool to modernize legacy system into Java-based web application * Implemented parser generator of legacy system for transformation process using ANTLR along with grammar for lexer/parser (Backus Naur) * Managed a team of four engineers under agile/scrum methodology for weekly customer release   **Software Development Engineer Intern, Tyemill (Seattle, WA)**  Jun 15 – Sep 15   * Full-stack web application with Ruby on Rails framework (PostgreSQL hosted with Heroku) * Improved performance of I/O operations using eager loading |
| ­ | Education University of Washington  Master in Computer Science and Software Engineering Dec 16  in-major GPA: 3.63/4.0  Bachelor in Mathematics Mar 14  Relevant coursework: object-oriented programming, data structures and algorithms, systems programming, distributed computing, parallel programming, cryptography and data assurance, software architecture, software management, software development processes, software modeling, test and quality assurance, evaluating software design, research methods in software development |
|  | TECHNICAL EXPERIENCE  * Facilitated message distribution with an inter-group multicast relay program using multiple computing nodes (messages sent via TCP then broadcasted via UDP) – **socket programming, multi-threading - Java** * Improved performance of an inversed indexing program using a batch process to sort by keyword – **parallel computing, MapReduce - Java** * Improved computation time speed up by parallelizing a 2D graphical wave diffusion program (4 computing nodes/4 threads) – **parallel computing,** **OpenMP, MPI** **- C++** * Implemented a real-time code analysis graphical tool of version control system with responsive interface (publisher/subscriber) – **MongoDB – Java** * Developed a robust and secure network protocol for distributed system based on mobile agents concept, with time performance improvement using elliptic curve cryptography – **distributed computing, cryptography, RMI, JCE, JEE - Java** |
|  | **ADDITIONAL EXPERIENCE**  Technologies: Proficiency with Java  Experience with C++, JavaScript, Python, Ruby, Typescript, SQL, HTML/CSS  Eclipse, Netbeans, IntelliJ, Visual Studio  Oracle, DB2, SQlite, MongoDB, RStudio  VM VirtualBox, VMware Workstation  Github, Bitbucket, Mercurial, Jira, SharePoint, Confluence  Experience: Software engineering and management  Full-stack web application  Object-oriented, thread and socket programming  Distributed and parallel computing  Cryptography and data assurance  Language/compiler theory  Familiarity with current and legacy systems  US citizen and proficiency with French and Vietnamese, and intermediate in Spanish (https://aboutddh.github.io) |

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