

Daniel Alexander Apatiga

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EDUCATION

B.A. in Computer Science and English, December 2016, The University of Iowa

- Earned a double major in English and Computer Science from the

College of Liberal Arts and Sciences

- Relevant coursework: computer science I: fundamentals, computer

science II : data structures, discrete structures, computer organization, algorithms, programming language concepts, topics in computer science I, object-oriented programming, calculus I and II, introduction to linear algebra, computer security, and introduction to networks and their applications

- Team projects

- Coded (with two teammates,) "**Poetweaver**," an application for

authors, poets, and writers to improve their writing on a sentence-by-sentence level

- team received 100% for the possible score in the final milestone

- Coded (with a teammate,) "**Markdown to LaTeX**," a program in

Rust for creating presentations in latex that were then converted to pdf for universal accessibility

- Coded (with four teammates) an inventory simulator for the

Amazon warehouse

Associate of arts, may 2012, des moines area community college

Earned degree in Liberal Arts and Sciences

RELEVANT PROFESSIONAL EXPERIENCE

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Audiovisual editor/it network admin., current chiropractic, jan. 16 2016--present

- Edited interviews with Avid Media Composer (latest v.) and Pro Tools 12

- Integrated music and voice in P.T. using equalizers and a range of tube saturations, tape saturations, and analog emulators; final edits done in Media Composer
- Maintained and operated professional audio equipment for interviews
- Maintained their website: <http://www.currentchiropractic.com/>
- Made their website [A.D.A.](#) compliant for persons with a sensory disabilities
- Secured their LAN from outside and inside intrusion using proprietary intrusion prevention system developed by myself (coded with Python)
- Developed encryption/decryption software for data at rest, network transportation, and backup in Java
- Configured their business router for industry-standard security; added an intrusion prevention system on the application-network layer
- Configured a proxy to increase speed to the web-based services required for them to do their work as chiropractors
- Wrote technical documentation for software and trained employees on how to secure emails for HIPAA compliance, and other procedures for protecting against theft of personal and sensitive patient information

NOTABLE RELEVANT SOLO PROJECTS

- Created a HIPAA compliant AES-256bit security so software written in Java
- Coding a near-complete mobile app for fitness with three stakeholders and co-founders
 - Coded an A.P.I. that communicates with [A.W.S. R.D.S.](#) on an [A.W.S. E.C.2](#) instance---the middle man, which sends data formatted in json to the frontend-web and mobile clients,
- Creating a personal website coded using the Ionic framework: <http://www.atomhid.com/>.
- Created many helpful scripts to facilitate website development:
- **WP-XML-to-HTML:** converts an exported WordPress site---a single XML file---into multiple, un-stylized, html files
- **FileNTree:** reads contents of a folder and subfolders in order to save that information as a json or Java file (for HTTP servers like Jersey-Grizzly) to serve them easily

SKILLS & ABILITIES

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SOFTWARE DEVELOPMENT

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- **Concepts, Frameworks, and Languages**
 - Java (SE,) Python, Rust, MySQL, Typescript, JavaScript, MIPs, HTML5 strict, XML, XHTML, SCSS, and CSS,

- Swing, JUnit for Java, JAssembly, Jersey-Grizzly HTTP/s server, Jackson module, MySQL connector for Java, regular expressions, standard libraries,
- Development tools i.g. JetBrains I.D.E.'s, MySQL Workbench, VS Code, Eclipse, and others,
- C.L.I.'s: Bash on Mac & Linux, MS-DOS prompt, and M.S. Powershell

- ***Very Experienced with***

- Cross-platform apps created with Ionic v1-3, Cordova, NodeJS, and Angular v1-6,
- Package managers: maven, npm, gradle, ant, and cargo (Rust),
- Creating usable and useful software in the aforementioned languages using functional and object-oriented design patterns; conversely, I am familiar with recognizing anti-patterns and subsequent course correction,
 - Single responsibility, open-closed principle, Liskov principle, interface segregation, and dependency-inversion principle,
 - Software testing methods: black, white, and grey box testing, acceptance, regression, acceptance, refactoring, unit, integration, fuzz, function, input-coverage, and statement-coverage testing
- Creating optimized algorithms, and knowledgeable about P, NP-hard, and NP-complete problems,
- Digital signatures, hash functions, ciphers and different modes for various encryption/decryption algorithms,
- Concurrency, multithreading, and multi-processor programming,
- Creating u.m.l. diagrams for defining objects and their interrelationships as well as using it for r.d.b.m.s. design in order to describe relationships between tables,
- OSI multiple-layer model for describing networks
- Configuring computers remotely using putty and bitvise (SSH/IP),
- Coding of encrypted authentication for users both locally and for networks,
- Creating socketed connections between server and client(s) in the aforementioned languages,
- Planning and documenting, the agile methodology, and test/behavior-driven development,
- Backlogs, velocity, iteration and release, and interpersonal communication with stakeholders,
- Team communication, pair programming, and driver/navigator methodologies,
- Creating technical and easy-to-understand documentation for the purpose of reminders, readme's, and to-do lists

SPECIAL COMMUNICATION SKILLS

- Earned major in English from a highly-ranked R1 institution known internationally for its famous Writer's Workshop
- Intermediate level in writing, reading, and communicating in Spanish