John Fial, Software Engineer

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in linkedin.com/in/johnfial | 🌐 GitHub: github.com/johnfial/ |Portfolio: johnfial.github.io/

EXECUTIVE SUMMARY

Self-motivated, disciplined Software Engineer and Full-Stack Developer established at learning new technologies and teaching others. Python and JavaScript, HTML/CSS for web development. Programming and coding solutions optimizing for speed and scalability. Knowledge of algorithms and computer science fundamentals, plus security, hacking, networking, and protection.

TECHNICAL SKILLS

Languages:
Python, JavaScript ES6, CSS3, HTML5, SQL

Tools, Libraries, Frameworks:
Django & DRF, Vue, JSON, Konva, introductory React, Selenium (Python), Cryptocurrencies, DVORAK, DOM, OOP, Networking & TCP/IP, API and RESTs, Open-source, Security protocols (CSRF, XSS, SQLi)

Applications:
GitHub, git, Git Bash, pip, PowerShell, Cmder, VS Code, Ajax, PythonAnywhere, Sync/Dropbox, Microsoft Office 365, vim

Practices:
MVC, CRUD, REST, MVP, Agile, Scrum, Project Management, Risk Management, Database Design, Responsive Design, Graphic Design, Security, Testing

PROFESSIONAL EXPERIENCE

Software Engineer Teaching Assistant – *PDX Code Guild* (remote)   **2021 – Present**

- Assists instructor in materials, syllabus, lesson planning, and curriculum.
- Assists in preparation of new programming exercises for students and helps instructor at random throughout lectures.
- Meets with students directly (remote) to further their understanding of concepts.
- Teaches and provides technical support; troubleshooted problems, and managed online questions via live-stream chat.

Software Engineer / Developer – *John Fial Coaching and Consulting*   **2015-Present**

- Worked on personal website, Udacity Introduction to Programming (Python/HTML/CSS) certificate; see portfolio for details.
- **Highlighted project #1) Childhood Canvas** (code, deployed), a visual play sandbox for older babies and toddlers, focused on keyboard interaction. Project deployed via PythonAnywhere, uses Django (Python) on back-end, JavaScript on front-end, and Vue.js for its DOM.
- **Highlighted project #2) Lord of the Rings Quotes** (code, deployed) is a web app built to interact with an API using Vue.js..

Airborne Sensor Operator – *Flight Landata*   **2011-2012**

- Mission planning to include review of mission and topography, flight path, timeline, flight hours, postflight regular logs of flight details (takeoff/land times, total hours, rolling hours, etc.), hardware review of all relevant sensors for specific mission prior to takeoff, initialize/termination of sensor during mapping sessions, troubleshooting of equipment during mission, upload and review of collected data to ensure integrity (unclassified duties only)

Airborne Sensor Operator / Operations Technician (1A4x1) – *United States Air Force* (stateside + deployments)   **2007-2011**

- Flew combat missions aboard two military aircraft totaling over 2,000 flight hours.
- Reviewed and maintained highly technical aspects of mission and equipment, including mission geography, terrain, intelligence information, cryptographic keys, radio functionality, physical sensor equipment, voice and chat communication, sensor hardware, and emergency equipment.
- Troubleshooted and solved equipment issues during flight.
- Also maintained peak physical and mental health amidst global deployments and schedules.

EDUCATION

Certificate, Full-Stack Developer Course, PDX Code Guild   **January 2021**
(Python, JavaScript, CSS, HTML, Django, Vue, and personal projects; see "Technical Skills" above)

Master's, Molecular and Cellular Biology, University of Arizona   **December 2014**
(Coursework included *Project Management, Law for Engineers/Scientists, Technical Sales and Marketing,* and *Business for Scientists*)

Bachelor's, Security Management, American Public University System (remote)   **May 2011**
(Coursework included *Evaluation of Security Programs, Contemporary Issues in Security Management, IT Security: Attack & Defense, IT Security: Auditing, Cyberlaw and Privacy in a Digital Age,* and *Industrial Espionage*)

VOLUNTEER EXPERIENCE & COMMUNITY SERVICE

- Primal Certified Health Coach, 2017-Present
  - Certified primal health coach and committed to healthy diet and lifestyle practices.
  - Mostly coach friends and family.
- \> 10 blood donations, Red Cross
- Community Cleanup Events, Oregon, USA
- United States Air Force, Base Honor Guard:
  - Included daily use of formal Air Force dress uniform, leadership of ~5-person details for ceremonies, usually funerals, driving to/from funerals, operational planning/execution of brief military honors ceremony during funeral, coordination with both family members or funeral services organizers, extreme patience in hot and cold environments (in full formal uniform) while waiting for ceremony to proceed, folding of U.S. flag over tomb (or beside it), respective firearm 'salute' for fallen servicemember, presentation of flag to next of kin.
  - Award: Unit "Ceremonial Guardsman of the Quarter" award. During the award's competition, which tested knowledge, poise, and execution of ceremonial movements, I not only outcompeted the other guardsmen, but also scored 75/75 points. The three board members said they had never before seen an airman attain a perfect score.

INTERESTS AND PERSONAL SKILLS

- Spanish Language (Est. B2 or C1, CEFR), foreign cultures and travel.
- Comfortable and passionate public speaker, Toastmasters Advanced Bronze Award.
- Excellent written and oral communication, and lifelong love of reading and writing.
- Daily meditation practice and an established ability to focus.
- Cryptocurrencies and tangent cryptography/security fields.