Dmitri Fedoruk

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EDUCATION

Carroll Community College
Associate's Degree in Arts and Sciences, Cum Laude, awarded December 2015
Honor's Society, Phi Theta Kappa, STEM Club, Math Team, SMART Scholars undergraduate research

RELEVANT COURSEWORK – All programming/web dev. courses listed were taught by software professionals

Discrete Structures
Algorithms, logic, recursion, set theory, mathematical induction, combinatorics, and other discrete mathematics topics.

Principles of Programming/Intro. To Object-Oriented Programming
Courses in programming fundamentals (decision structures, loops, functions, classes, methods, exception-handling).
Based around Java and Python, respectively.
Developed ability to write clean, easy to read code and comments, visualize data flow, identify and test edge cases.
Emphasized usability and covering all possible user input and errors in my approach to programming assignments.

Intro. SQL + Database Design
Relational database concepts, normalization, ER diagrams, use of SQL (MySQL, DataGrip).

Advanced Principles of Programming
GUI programming (JavaFX), interaction with databases (MySQL, H2) and unit testing in Java (JUnit).
Use of professional tools for editing and debugging code (IntelliJ IDEA).
Emphasis on behavior-driven development, full code coverage with tests.

Client-Side Web Development
Single-page web apps using a Javascript framework (Vue.js) and a cloud-hosted, NoSQL database (Cloud Firestore).

Server-Side Web Development
Development of web pages using Apache, MySQL, and PHP in a Windows environment.
Use of databases to support server-side functionality.
Use of a PHP framework (Symfony), object-relational mapping (Doctrine) and the Model-View-Controller pattern.

SKILLS

- Strong background in Programming, Mathematics, Engineering, and Problem Solving.
- Reputation for writing clean, effective, well-documented code and original and engaging web page layouts.
- Familiarity with Java, Python, PHP, SQL, and HTML, CSS, and Javascript.
- Accustomed to working out solutions on paper prior to coding.
- Familiarity with behavior-driven development and red-green-refactor workflow.
- Experience using professional software development tools (IntelliJ IDEA, PHPStorm, DataGrip).
- Eagerness to learn, good listening and note-taking abilities.
- Exceptional attention to detail developed during years of inspection experience.
- Ability to notice small inconsistencies; talent for proofreading.
- Good troubleshooting instincts; ability to identify edge cases and find ways to test them.
- Experience in professional report writing and data presentation.
- Accustomed to communicating with people at many different levels of a project to get a job done.
- Experience communicating complex concepts in an understandable way.

EMPLOYMENT EXPERIENCE

September 2015-Present: Professional Tutor, Carroll Community College
Specializing in programming and mathematics, working with students at all levels; recent emphasis on tutoring for Java and Python programming, primarily in a remote environment in the last 12 months

May 2003-Present: Welding Inspector/Nondestructive Testing (NDT) Technician, NDE Consultation Services, Inc.
Experience performing tests and inspections, writing inspection reports, gathering and presenting data, supervising and training inspection personnel, working independently in environments requiring a high level of situational awareness