BENJAMIN FOLKS

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https://github.com/bfolks2

APPLICATIONS-SOFTWARE ENGINEERING

After graduating with a BS in Engineering, I started my professional career working as a manufacturing Engineer consultant for a computer-aided manufacturing (CAM) software company. During my first year on the job, I utilized the software's open API in order to learn the fundamentals of Object Oriented Programming in VBA/VB.NET. This allowed me to take on projects focused on software development and successfully transition into a developer role. Recently, I have used experience gained from those past years of programming in multiple OOP languages to build my technical knowledge relating directly to Python and other Full Stack Development applications.

TECHNICAL SKILLS

• Python	• JavaScript/jQuery	• Bootstrap
• HTML/CSS	• Django	• Matlab

- Completed online Python/Django Full Stack Developer Bootcamp
- Created multi-application projects with Django/Python
    - Personalized website using all aspects of Full Stack Development: www.benfolks.com
    - Web app supporting user-generated content: http://bfolks2.pythonanywhere.com/
- Built stand-alone front-end and back-end applications using Full Stack
    - JavaScript/jQuery Connect Four, designed to interact with Document Object Model
    - Multiple Python projects encapsulating necessary tasks into functions/classes

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PROFESSIONAL EXPERIENCE

• Microsoft Visual Studio	• VB.NET	• ESPRIT CAD-CAM
• VBA	• C#	• SolidWorks 3D CAD

WORK EXPERIENCE

DP Technology – ESPRIT • Rosemont, IL • July 2012 – Present
Developer and supplier of computer-aided manufacturing (CAM) software for a full range of machine tools

Senior Applications-Software Engineer
- Manage customer-specific enhancement proposals from concept to finished program using Object Oriented Programming within the software API
- Utilize customer feedback obtained during trainings and consultations to plan and create additional VBA/VB.NET applications within the software API for improving software UI/UX
- Train customers in utilizing OOP expression builders to increase programming automation

Noteworthy Achievements
- Created and managed multiple Object-Oriented Programming projects from start to finish
    - Produced numerous VBA modules included in the base software to increase automation of default technology settings and enhance overall UX
    - Designed direct-to-customer VB.NET Add-Ins for customer-specific applications outside of the base software's functionality
- Supervised 35+ onsite customer consultations amounting to over 130 days
- Consulted with numerous developers working in fast-paced environments, including Stryker Medical, Woodward Inc, US Army at Rock Island Arsenal, and NASA at Glenn Research Center.

EDUCATION

Bachelor of Science in Aerospace Engineering
UNIVERSITY OF ILLINOIS • Urbana-Champaign, IL • 2011
FAA Certified Private Pilot - Instrument Rating