Brian Rieder

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EDUCATION

PURDUE UNIVERSITY
BS in Computer Engineering
West Lafayette, Indiana
Expected Graduation: May 2017
College of Engineering
Dean's List (All Semesters)
Cum. GPA: 3.64 / 4.0

PENN HIGH SCHOOL
Grad. May 2012 | Mishawaka, Indiana

LINKS

Github:// **brian-rieder**
LinkedIn:// **Brian Rieder**

SKILLS

PROGRAMMING
Over 5000 lines:
C • Shell • JavaScript • PHP • Python
Over 1000 lines:
MySQL • PostgreSQL • MSSQL
HTML/CSS • Assembly
Familiar:
Ruby • Matlab • Android • LaTeX
Introductory Knowledge:
Ada • Java • Visual Basic • Haskell • Scala

COURSEWORK

UNDERGRADUATE
Data Structures and Algorithms
Functional Programming
Object Oriented Programming
Unix Tools and Scripting
Microprocessor Interfacing
Research Assistant
Cloud-based Programming Interfaces
Teaching Assistant
Advanced C Programming

ACTIVITIES

• Eagle Scout in the Boy Scouts of America
• Eta Kappa Nu (HKN) ECE Honor Society
• Five Session Co-op in the Professional Practice Organization
• Member of the Electrical and Computer Engineering Student Society

INDUSTRY EXPERIENCE

GENERAL ELECTRIC AVIATION | Infra-Engineering Co-op/Intern
August 2013 - August 2016 (Rotational) | Grand Rapids, MI

Analytics Research and Solutions Engineer
- Generated, validated, and provided datasets to quantify and indicate **First Time Yield**, Nonconformances, Scrap and Rework, and Out of Box Failures to be reported via **Spotfire** visualization dashboards.
- Identified issues within Electronics Value Stream sites' data schemas and prescribed solutions that ranged from directly addressing processes to manually compiling reports or **PostgreSQL** queries to rectify data.

Advanced Common Modeling Environment (ACME) Web Developer
- Created a web based interface for users to interact with an Enterprise Architect driven database.
- Increased autonomy of data entry processes and diagram creation for customer presentation through user of **jQueryUI** and **yFiles** libraries in **Javascript**.
- Implemented back-end server and database interfacing with **PHP** and **MSSQL** to retrieve, update, and delete entries from tables with minimal user interaction.

Platform Architecture Study Lead Sub-section Engineer
- Led modeling efforts on the Platform Architecture Study Internal Research and Development (IRAD) team working to create a model to migrate future era business jets from a federated platform to a General Electric designed **Integrated Modular Architecture (IMA)**.
- Created the model of and performed functional decomposition, software partitioning, and electrical hardware analysis of ATA 100 defined subsystems 26, 28, and 38: **Fire Protection, Fuel System, and Water and Waste**.

P-8 Poseidon Flight Management Systems Engineer
- Acted as a fully functional **Systems Engineer** and performed **Verification and Validation Testing** for the design of the P-8A, P-8I, and P-8AAS flight management systems.
- Utilized **Ada** programming application to **embedded systems** and scripted AutoTest execution with **Visual Basic**.

ACADEMIA EXPERIENCE

WEB PROGRAMMING INTERFACE | Lead Back-end Developer
August 2014 – December 2014 | West Lafayette, IN

- Constructed a cloud-based programming interface for the Advanced C Programming course in the Computer Engineering department.
- Led the development of the back-end interface created primarily in **Python** using Apache and Django.

ADVANCED C PROGRAMMING TEACHING STAFF |
Undergraduate Teaching Assistant
May 2014 – December 2015 | West Lafayette, IN