Tyler Andrews

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EXPERIENCE

Realtime Software Engineer   **June 2018 - Present**
The Boeing Company   *Long Beach, CA*

- Contribute to full life-cycle development including requirements analysis, software architecture, designs, coding, unit test, integration and formal qualification.
- Document software architecture and interface design.
- Facilitate coding standard compliance via installation and maintenance of code-analysis tools.
- Concisely explain and demonstrate software functionality and design.

Web Development Intern   **August 2017 – June 2018**
Chapman University   *Orange, CA*

- Created and maintained .NET web applications for Chapman University's website.
- Contributed to the development of events.chapman.edu, a calendar of Chapman events.
- Accelerated the team's transition from Visual SourceSafe to Team Foundation Server.

Earthquake Forecasting Intern   **January 2017 – June 2018**
Chapman University   *Orange, CA*

- Identified and tracked pre-earthquake processes by monitoring changes in the conductivity of the earth's atmosphere.
- Created live, interactive data visualizations of feeds from various sensors on Chapman's campus.
- Modeled and plotted the correlation between sensor anomalies and earthquakes.
- Developed primitive algorithms for earthquake prediction in MATLAB.

System Administration Intern   **May 2016 – September 2016**
Penn Medicine, Lancaster General Hospital   *Lancaster, PA*

- Assisted System Administrators by maintaining security of crucial business intelligence reports.
- Wrote and maintained VBA scripts to improve process efficiency.

TECHNICAL SKILLS

- Object Oriented Programming: *C++, Python, Java, C#*
- Code analysis and coding standard compliance: *LDRA, MISRA C++, HIC++, CERT-C++*
- Scripting: *Python, Bash, VBA*
- Front end web development: *HTML, CSS, JavaScript*
- Data management and visualization: *Excel (VBA), MySQL, R, MATLAB, Tableau*

EDUCATION

B.S. in Computer Science *Minor: Mathematics*   **August 2015 – May 2018**
Chapman University   *Orange, CA*

- **Awards and Scholarships:** Magna cum laude honors, National Merit Scholar, Chancellor's List, Chancellor's Scholarship