

Chris Boston

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SOFTWARE ENGINEERING EXPERIENCE

Leidos

06/2017 – Present

Software Engineer, Civil Division – Public Trust Clearance

Gaithersburg, MD

- Develop full-stack web solutions in a rigorous Agile environment for the FAA's air traffic control automation system, using a sharded MongoDB backend, Flask-enabled Python web servers, and compartmentalized JavaScript UIs.
- Design, create, and support families of robust interactive dashboards dynamically visualizing trends in national flight data, using React.js components for a flexible, crisp, and responsive UI that satisfies or exceeds client specifications.
- Take ownership of complex technical projects from inception to release, overseeing scoping requirements, system design, implementation, documentation, unit testing, and launch.
- Effectively communicate technical details with non-technical audiences to determine requirements, track progress, and lead collaboration between developers, systems engineering, and various FAA client stakeholders.
- Independently rebuild legacy web pages from Perl and static HTML to modern, hierarchical Python and Jinja templates.
- Advise team on system architecture design for optimal code reliability, scaling, asynchronous efficiency, and elegance.
- Automate deployment and maintenance of distributed web applications with bash and Make scripts on Linux boxes.
- Construct RESTful APIs for both URL and AJAX requests, optimizing for smooth, functional data flow and clean code.
- Reinforce uniform and atomic system interaction with MongoDB relational database using Python class interfaces.
- Mentor summer interns with one-on-one shadow program; train new hires on team standards and methods.

Ally Financial

04/2015 – 08/2015

Salesforce.com Development Intern

Detroit, MI

- Collaborate with Agile team releasing custom-designed Salesforce.com Apex web modules within Eclipse IDE.
- Spearhead code standardization projects for all Apex and Java code corporation-wide.

Automatic Data Processing (ADP)

01/2014 – 04/2014

IT Hosting Operations Intern, Operations Center Division

Ann Arbor, MI

- Re-design multiple corporate support webpages with HTML5/CSS3, in cooperation with various departments.
- Use RDP and SSH with to perform regular server software maintenance in an IT help desk environment.

University of Michigan Institute for Social Research

09/2011 – 08/2013

Laboratory Manager & Graphic Designer, Bias Research Program

Ann Arbor, MI

- Formulate experiments to study and reduce implicit bias in the STEM workplace; lead meetings, mentor new hires.
- Become aware of my implicit biases so to combat their effects and endeavor to limit their influence on my perception.

EDUCATION

University of Michigan

Graduation: 04/2017

- B.S. in Computer Science – Track concentrations in Web Design and Software Engineering

Ann Arbor, MI

Notable Coursework

- Software Engineering • Full-Stack Web Development • Video Game Development • Artificial Intelligence •
- Calculus I & II • Discrete Math • Statistical Data Analysis • Undergrad Social Research • Programs & Data Structures •
- Data Structures & Algorithms • Computational Theory • Database Management Systems • C# Applications •

RELATED SKILLS

Languages

Python (Flask, Django, Jinja, PyMongo), Bash, C, C++, C#, JavaScript (React.js, Angular.js, Node.js, TypeScript, JSON), Core Java, MongoDB, SQL, MySQL, HTML5, CSS, SCSS/Sass

Software

Git, Docker, Eclipse, MS Visual Studio, .NET Framework, AWS (IAM, Amplify, ElasticBeanstalk) VIM, Unity Engine, Adobe Suite, JIRA, Linux, MS Windows, MS Office 365

Concepts

Full Stack Development, Front End Development, RESTful API Design, Web Servers, Web UI Design, Complexity Analysis, Data Structures & Algorithms, Object-Oriented Programs, Event-Driven Programs, Deployment Automation, Digital Graphic Design, Distributed Software, Agile Methodology, Unit Testing, Video Game Design, System Design, AJAX

NOTABLE PROJECTS

HabitaSync

11/2018 – 09/2019

Creator

Bethesda, MD

- Independently design and develop web utility HabitaSync, a cloud-based app to sync Habita with Google Reminders.
- Build Glitch-hosted Python webservers with RESTful APIs, using event webhooks and Google Scripts cloud cronjobs.

MediVision, University of Michigan

12/2016 – 04/2017

Co-Creator & C# Application Developer

Ann Arbor, MI

- Created scalable live video streaming platform MediVision, a prototype web service and Microsoft HoloLens app.
- Designed MySQL database, Python webserver, Jinja templating, and an augmented reality app built with C# in Unity.