

Tyler Coleman

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Education

Tufts University – Medford, Massachusetts

BS Electrical Engineering '17, cum laude

Coursework:

web development - data structures - digital signal processing
communications systems - linear systems – feedback control systems
computational physics - microprocessor architecture - probabilistic systems analysis

Experience

Pacific Gas & Electric (contracted) – San Francisco, CA

Software Engineer – *September 2017 - present*

- Developed IT web applications with Java, utilizing technologies such as servlets, JSP, and JDBC.
- Improved productivity using tools like VB and Selenium to automate existing test procedures.

Autoliv Active Safety – Lowell, MA

Technical Intern – *Summer 2016*

- Contributed to bring-up of narrow-band radar sensor prototypes for automotive use.
- Identified areas for improvement via a vast critical review of hardware design.

Projects

Burger Builder – React.js

- A simple React app that allows users to build and “order” burgers with an interactive interface.
- Integrates concepts such as form validation, routing, and responsive design.

Rate My Lunch – React.js, Redux

- Developed a faux social media where users can post and vote on other users’ lunches.
- Integrated React front-end with RESTful back-end to enable data persistence using Firebase.

Web Game Development – Express, Phaser, Socket.io

- Built UI and REST API for a real-time, multiplayer TRON clone, including a matchmaking system.
- Enabled data persistence and stat-tracking by integrating a NoSQL database and a login system.

Automated Cough Counting System – PIC24, embedded C

- Designed a wearable device in conjunction with the Hospital Nacional Dos de Mayo in Peru.
- Analyzed microphone and accelerometer inputs in real time to profile cough samples.

Fractal Generation – C++

- Generated bitmap images with controllable histogram coloring and zooming.

Skills

- Object-oriented analysis, design, and development
- Front-end and back-end web development
- Design and execution of software test plans
- Technical and non-technical communications

Languages: C++ (advanced), C (proficient), Java (prof.), Visual Basic (prof.), MATLAB (prof.),
JavaScript (prof.), C# (prior exp.), Python (prior exp.), SQL (prior exp.)

Tools: React.js, Redux, jQuery, Node.js, Express, MongoDB, Oracle DB, Unity, Selenium