Josh Levine | Software Engineer

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LinkedIn | GitHub | Website

PROFESSIONAL SUMMARY

I am a software engineer with a proven track record in education and genomic analysis. I have a passion for solving complex problems methodically, and writing consistently organized code that is easily transferable between team members. I believe that effective communication is the foundation of successful teams. I thrive in collaborative environments where there is a balance of shared and individual responsibilities.

TECHNICAL SKILLS

Languages and DataBases: HTML | CSS | JavaScript | Python | Perl | Markdown | SQL | PostgreSQL | MongoDB
Libraries and frameworks: React | Express.js | Node.js | Mongoose.js | Sequlize.js | Vue.js | Flask | SQLAlchemy
Bioinformatics: NCBI/Entrez | BLAST | MUSCLE | Geneious | Dendroscope
Tools: VS Code | Insomnia | Postico | MongoDB Compass/Atlas | Heroku | Surge | Trello
Other: OOP | JWT | RESTful Routing | APIs | Git | GitHub | E/R Diagrams I Unix | MacOS | Linux
Core Skills: Project Management | Collaboration | Presentations | Stakeholder Management | Attention to Detail

TECHNICAL EXPERIENCE

Tic-Tac-Toe I A game build with Vanilla JavaScript, HTML, and CSS
Solo Project | 2 Days | GitHub | App

- *Built a browser-based version of Tic-Tac-Toe, after only one week of HTML/CSS/Javascript instruction*
- *Used HTML, CSS Grid, and CSS Flexbox to achieve an aesthetically pleasing layout*
- *Used Javascript to implement basic game functionality as well as a turn status board, multi-game scoreboard, and a simulated computer opponent*

Full Stack Kingdom I A scheduling application built using the MERN stack
Team Project | 3 Days | GitHub | App

- *Having not previously worked together, built a full-stack, full CRUD application for planning a day at a theme park.*
- *Used React with functional components to build a front-end where users can view a list of available attractions, and dynamically add them to their schedule using API calls to the back-end server.*
- *Used Express and Mongoose to build 6 unique routes and controller functions that made calls to the Mongo database to create, read, update, and delete records of attractions, and schedules.*

Seq Keeper I A Gene and DNA/RNA sequence organizer build using the PERN stack, and the NCBI/Entrez E-Utilities
Solo Project | 7 days | GitHub | App

- *Inspired by my previous work as a biology educator and researcher, built a full-stack, full CRUD, user authenticated application enabling users to interact with a subset of the publicly accessible NCBI Databases*
- *Used React to build function components, pages, and services allowing user authorization and authentication (via JSON Web Tokens), API calls to the Entrez E-Utilities (ESearch, ESummary, and EFetch), and API calls to the back-end for Gene and sequence records*
- *Used Express and Sequelize to manage access to User, Gene, and Sequence models built in a PostgreSQL database (10 unique migrations) via a server with 16 unique routes and controller functions, as well as authorization middleware*

WORK EXPERIENCE

Teacher - Biology & AP Biology Aug 2016 - May 2022

Granville Exempted Village School District, Granville, Ohio

- *Managed curriculum and assessment of 5 groups of 30+ students daily*
- *Analyzed student data in order to better inform teaching decisions and provide equitable learning opportunities and fair grading policies.*
- *96% of Biology students earned proficient ratings on the Ohio Graduation Test (state average= 62%)*
- *85% of AP Biology students earned passing scores on the AP Biology Exam (global average = 63%)*
- *Secured $5,500 in grant funding for classroom improvement projects, resulting in greater than 20% increase in student ratings of engagement in the biology laboratory.*

Teacher - Biology & AP Biology Aug 2013 - May 2016

Flowing Wells Unified School District, Tucson, Arizona

- *Managed curriculum and assessment of 6 groups of 35+ students daily*
- *Analyzed student data in order to better inform teaching decisions and provide equitable learning opportunities and fair grading policies*
- *85% of Biology students earned proficient ratings on the Arizona Science Test (state average = 53%)*
- *75% of AP Biology students earned passing scores on the AP Biology Exam (school AP passing rate = 25%)*
- *Organized a yearly 4-day science trip for 40+ students in association with the University of Arizona's "Sky School" at the Steward Observatory.*

EDUCATION

Software Engineering Immersive Sep 2022 - Dec 2022

General Assembly**,** Remote

- 12-week full-stack software engineering immersive program focused on web frameworks, RESTful APIs, Object-oriented programming, and team collaboration strategies.
- Developed a variety of individual and group projects over more than 420 hours of instruction.

Master of Education, Secondary Science Education May 2012 - May 2013

University of Arizona, Tucson, Arizona

- Thesis - The effect of multi-modal teaching strategies on student engagement in the science classroom
- Research Advisor: William B. Roth, Ph.D.

Master of Science, Ecology and Evolutionary Biology Aug 2010 - May 2012

University of Arizona, Tucson, Arizona

- Thesis Project - The recent de novo origins of protein C-termini
- Other Publication - Evidence-Based Medicine as a Tool for Undergraduate Probability and Statistics Education
- Research Advisor: Joanna Masel, Ph.D.

Bachelor of Science, Molecular Biology, Honors Aug 2002 - May 2006

University of Wisconsin-Madison, Madison, Wisconsin

- Thesis - Molecular and immunological responses to cigarette smoke exposure in mice
- Research Advisor: Philip T. Diaz, M.D. (Ohio State University)