

EMIL SHARKOV

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EDUCATION

B.S. in Computer Science, University of California San Diego

September 2020 - June 2024

GPA: 3.7/4.0

Relevant Coursework: Advanced Data Structures, Design and Analysis of Algorithms, Software Engineering, Database System Principles, Web Client Design, Networked Services, Computer Vision, Computer Security

SKILLS

Languages	JavaScript, TypeScript, HTML, CSS, PostgreSQL, Python, Go, Java, C, C++, ARM SystemVerilog, Bash, SQLite, Perl, Ruby, Matlab
Technologies	React.js, Next.js, Node.js, Express.js, Redux.js, NumPy, PyTorch, Espresso, JUnit
Developer Tools	AWS, Docker, CI/CD Pipelines, Android Studio, Github, VSCode, Jira, Zenhub, Unix OS
Skills	Front-End, Back-End, Full Stack, and Mobile Development, DevOps, Agile Process

WORK HISTORY

MakeItHappen

June - September 2022

Full Stack Intern

PostgreSql, Express.js, React.js, Node.js

- Reduced time spent on customer requests by creating internal tool to present statistics on over 20,000 users
- Increased visual appeal and ease of access of customer website by redesigning existing components
- Oversaw fixing client and server side defects to production identified by users of contracted internal tool
- Managed client database maintenance and fetched appropriate data for client requests using SQL queries

Ardigent Consulting

October - December 2019

Web Development Intern

React.js, Next.js, Express.js

- Increased SEO and Google ranking by integrating React codebase with Next.js to allow for server side rendering
- Enhanced database security with sanitation procedures inside RESTful APIs to prevent SQL Injection attacks
- Improved accessibility of company website by refactoring landing page by utilizing CEO's specifications

HIGHLIGHTED PROJECTS

Traka

September - December 2022

trakaworkouts.com

PostgreSql, Express.js, React.js, Node.js, Docker, AWS

- Engineered full stack web application with PERN Stack to track workouts and progress for bodybuilders
- Created RESTful APIs using Express.js to manage requests for login and workout data stored in Postgres database
- Containerized client, server, and database using Docker for scalability and deployed to AWS ECS for hosting

Birds of A Feather

January - March 2022

CSE 110: Software Engineering

Java, SQLite

- Developed Java Android application to connect over 300 students based on similar interests and courses
- Stored user interests in SQLite database and shared data with other users via Google Nearby API
- Employed Agile practices, Github version control, and Zenhub project management to foster efficient teamwork
- Applied behavior-driven development to implement user stories and quickly responded to changing requirements

Automated Cookie Clicker

March 2022

Personal Project

Python

- Created Python script to automate web browser game Cookie Clicker using Selenium Webdriver API
- Utilized Selenium to scrape HTML attributes from Cookie Clicker website for game analysis
- Developed algorithm to determine most optimal upgrades to yield more cookies per second