

# EMIL SHARKOV

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## EDUCATION

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**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

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

## WORK HISTORY

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**MakeItHappen**

June - September 2022

*Full Stack Intern*

*PostgresSql, 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

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**Traka**

September - December 2022

*trakaworkouts.com*

*PostgresSql, 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