William Kelly

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Education

University at Albany State University of New York   **May 2022**
Bachelor of Science in Computer Science   GPA: 3.55/4.0
Minors: Mathematics, Informatics

Work Experience

Truth or Err - *Software Engineering Intern*   January - May 2022
- Created a highly scalable application specific blockchain using Golang and CosmosSDK.
- Implemented emerging technology such as inter-blockchain communication and proof-of-stake consensus, increasing interoperability and decreasing transaction times by a factor of 100.
- Created a web application with Vue allowing for users to create and sign transactions, and participate in an auxiliary marketplace.
- Improved the speed of the web application through the use of efficient data fetching algorithms and caching.

Added Dimensions - *Software Development Intern*   May 2021 - January 2022
- Developed a responsive web page using React, increasing web traffic by 60% in the span of 2 months.
- Aided in each step of the development process from planning to the implementation of features which impacted 50,000 users.
- Designed and implemented 20+ reusable React components.
- Wrote unit and integration tests to achieve 80% code coverage, drastically reducing errors.

Sounds Interiors Inc. - *Web Development Intern*   June - August 2019
- Developed and maintained a static, multi-page informational website about the company.
- Tested website to ensure responsiveness across multiple devices and browsers.
- Aided in the deployment of the website.

Project Experience

Price Tracker (JavaScript, React, Firebase)   August 2021 - Present
- Developed a lightweight price tracking web application using React and Firebase.
- Designed a pipeline to normalize data from various price tracking apis and persist it in Firestore.
- Combined real time data consumption with Twilio to notify users immediately of a price change.
- Implemented third-party authentication, allowing users to follow items using their existing accounts.

Next Blog (JavaScript, React, Next, Firebase)   January 2021 - Present
- Created an open source, full-stack blogging platform using Next.js and Firebase.
- Provided efficiency and scalability to handle increasing user count through Server-Side Rendering, Static Site Generation, and Incremental Static Regeneration.
- Secured the application in deployment with custom Firestore Rules.

Skills

Technical: JavaScript, TypeScript, Java, Go, Node, Next, React, Vue, SQL, GraphQL, Prisma, Express, Redux, Git.

Related courses: Design and Analysis of Algorithms, Database Systems, Software Engineering, Operating Systems.

Interpersonal: Collaboration with developers on large projects, Agile and Waterfall development, Pair programming.

Activities & Affiliations

Cyber Defense Organization- *Member*   September 2018 - May 2022
- Participated in a private Red Team-Blue Team event, assisted in finding vulnerabilities and preventing attacks.
- Gained experience in detecting and fixing vulnerabilities in a fast-paced environment.

Google Kickstart Coding Competition   April 2021 - Present
- Developed algorithmically efficient solutions, given problems under a three-hour time constraint.
- Translated these solutions into code that met the specifications provided.