

# Kevin On

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## SKILLS

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**Languages:** Javascript, TypeScript, HTML5, CSS3, Python, C++

**Frameworks/Libraries:** React.js, Node.js, Express, jQuery, AJAX, SuperTest, Jest, Sequelize, Material UI, Mocha / Chai

**Database Systems:** MySQL, PostgreSQL, MongoDB, Redis

**Developer Tools/Environments:** Visual Studio, Git, Lighthouse, npm, Webpack, Babel, Loader.io, K6, New Relic, AWS EC2

## APPLICATIONS

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**Atelier: Front-End** - [github.com/onkev/Atelier-Front-End](https://github.com/onkev/Atelier-Front-End)

2022

*React application allowing users to browse and view products*

- Enabled users to preview related products seamlessly by Implementing scrollable, dynamically-rendered carousel component with **linear space/constant** time complexity using mathematical functions determine the component size
- Enabled users to compare and contrast features between the current product and an user-selected product by designing a comparison modal using **native Javascript** methods
- Reached 100% test coverage through integration and unit testing using **Jest**, improving application functionality and efficiency by identifying edge-case rendering bugs and long load times
- Collaborated with a remote team of 4 utilizing **AGILE** practices, work-ticketing system (Trello), and **TDD**

**Showcial: Full-Stack** - [github.com/onkev/Showcial](https://github.com/onkev/Showcial)

2022

*Social media React application using TypeScript allowing users to search for, save, and share TV shows and movies*

- Improved user viewability and searchability by creating a dynamic, accordion-style, personal “watch list” which rendered video cards of shows/movies a user saved with filter and sorting capabilities
- Implemented endpoints enabling 5 other team members to utilize data from The Movie Database API
- Utilized Material UI to create a shared video card component which displayed a show’s/movie’s image and title
- Developed a search function which returned personalized shows/movies based on users’ search term

**Atelier: Back-End** - [github.com/onkev/Atelier-Back-End](https://github.com/onkev/Atelier-Back-End)

2022

*Integrated system design back-end and scaled a PostgreSQL database to serve product data to inherited front-end client*

- Achieved consistent 0% error rate using testing tools (**Loader.io, K6, New Relic**) to identified Node.js bottlenecks
- Improved code readability and maintenance by simplifying table association queries using **Sequelize** in **PostgreSQL**
- **Horizontally scaled service** by deploying **PostgreSQL DB, Redis cache, and Node.js** API using three separate **AWS EC2** instances after identifying CPU usage inefficiencies with Redis, allowing for over 2.5x RPS at half response latency
- Lowered response latency to an average of 2,000ms at 1000 RPS by identifying database query times bottlenecks and optimized the database by indexing foreign keys and caching 40% Redis keys

## WORK EXPERIENCE

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**Consultant, Compensation Consulting**

**FutureSense, LLC | 2019 – Present**

- Improved client workflow up to 35% by designing formula-heavy Excel workbooks tailored to specific clients, providing ease of analysis for projects and tasks
- Determined the best placement for company jobs based on clients’ company information and market analyses
- Developed salary structures based on market studies and analyses to meet client needs and expectations

**Provisioning Specialist**

**AxiaMed | 2018 – 2019**

- Improving the amount of shipped and functioning terminals from 6000 to 9000 by implementing assembly-line like process of provisioning Point of Service terminals for major health care providers
- Maintained and audited an inventory of over 4000 terminals through Excel spreadsheets and Salesforce
- Increased daily completed Salesforce work orders by 20% by establishing organized workflows for the team

## EDUCATION

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**HackReactor Galvanize: Advanced Software Engineering Immersive**

2022

**University of California, Santa Barbara Bachelor’s in Mathematics**

2014 - 2018