

Nikita Shalimov

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Projects

- Live | [Github](#) SimplyNote, React.js, Rails, PostgreSQL.**
A full-stack note-taking app with Redux architecture and a RESTful JSON API
- Built a dynamic, seamless, frontend view layer with notes index and RichText editor components
 - Achieved real-time note editing by leveraging AJAX requests to communicate with the Rails backend
 - Optimized note searching functionality by pre-loading data from the Rails API
- Live | [Github](#) Pathfinder.js, JavaScript (ES2015), HTML5.**
An interactive visualizer of four common pathfinding algorithms
- Implemented A* and Dijkstra Search algorithms on a 2D grid, as well as underlying data structures
 - Conducted user tests to achieve intuitive visual interface and improved UX
- Live | [Github](#) Schemer, Vue.js, JointJS, Express, Node.js, MongoDB.**
A visual database design tool that generates SQL code in real time
- Developed with a brand new stack, designed and took project to MVP completion in a week
 - Implemented a unidirectional data flow using Vuex, resulting in DRY code usable by the whole team

Skills

Ruby, Ruby on Rails, JavaScript, React.js, Redux, Vue.js.
jQuery, SQL, HTML5, CSS3, Git, C++, MatLab, LaTeX

Experience

- 2013–2017 Mathematics Adjunct Instructor, UC Berkeley, Berkeley, CA.**
- Led course with 60+ students focusing on Linear Algebra and study habits
 - Designed a semester of curriculum, including bi-weekly lectures and assignments
 - Motivated students in group office hour sessions spanning 20+ hours per week, resulting in an average improvement of 0.4 grade points
- 2014–2016 Student Researcher, Lawrence Berkeley National Laboratory, Berkeley, CA.**
- Implemented and tested Multijet Background Templates, an algorithm to process and analyze 5+ TB of physics data
 - Delivered scientific findings in time for the International Conference on High Energy Physics

Education

- 2012–2016 BA, Applied Mathematics and Physics, UC Berkeley.**
GPA: 3.9