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 Dijsktra 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

2017 **App Academy**, *San Francisco, CA*.
12-week full-stack web development bootcamp with $< 3\%$ acceptance rate.

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