

# 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**, *Student Learning Center, 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
- 2017 **App Academy**, *San Francisco, CA.*  
12-week full-stack web development bootcamp with < 3% acceptance rate.