Alexander **Doundakov**

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SKILLS **Ruby, Rails, Javascript, jQuery, React, HTML/CSS, SQL, git, TDD**

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PROJECTS **Hangman** (Ruby) | *Sole Developer* | source
Classic word game re-created in Ruby, with intelligent AI.
- Innovative program design allows for multiple game-modes: human vs AI, human vs human, or even AI vs AI.
- Intelligent AI avoids guessing letters multiple times, and eliminates potential words based upon input from referee.

Protein Peak Calculator (Python) | *Sole Developer* | source
A biotech tool to help determine which fractions to collect from an HPLC run.
- Reads HPLC curve data from an .xls file and calculates which fractions to pool based on user specified targets. If no targets are specified, defaults to industry norms.
- Saves calculations as new file, following documentation standards.
- Uses matplotlib and SciPy to give statistical analyses of data sets.

EXPERIENCE **Research Technician** – *Scripps Research Institute (10/2014 – 08/2016)*
- Produced varying ($500\mu g$ – 1g) quantities of endotoxin-free monoclonal mammalian antibodies, beginning with hybridoma fusion and continuing through purification.
- Budgeted lab resources to achieve quick project completion without loss of product quality.

Research Assistant – *Scripps Research Institute (02/2013 – 10/2014)*
- Main wet-bench lead for HIV vaccine experiment, managing full protein production pipeline from bacterial transfection through HPLC and stabilization for shipment.
- Optimized harvest protocol, lowering per-step losses of protein while also reducing risk to operator.
- Further refined buffer preparation procedures, leading to increase in laboratory capacity after protocols were adopted by the rest of the team.

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EDUCATION **Web Development -** *App Academy (Fall 2016)*
- 1000-hour full-stack development course with < 5% acceptance rate
- Topics include: Rails, React, TDD, OOP, algorithms, JS, and web development best practices

B.S. Nanoengineering (Bioengineering Focus) – *UC San Diego, 2014*