

# EHRICH PAKALA

205 Prospect Ave. Waterloo, IA | 319.610.8780 | [pakalae@gmail.com](mailto:pakalae@gmail.com) | [ehrichpakala.com](http://ehrichpakala.com)

## Career Objective

It is my goal to provide intuitive software solutions to clients, to implement technology which provides accessibility to analytics and data science, improve client decision-making and to expand my skill set and education.

## Experience

For a detailed resume and further experience, please visit [ehrichpakala.com](http://ehrichpakala.com)

### **Pack Moose**

*Director Data Science | January 2015 – Present*

Design and manage full data science initiatives for client companies

### **Greenscape Analytics**

*Cofounder/Senior Developer and Software Engineer | July 2017 – Present*

Data Science - Design KPIs for farmers' decisions on seed purchases. Analyze return on variable costs for farms. Build hail insurance quoter, create ETL jobs and meet with clients.  
Software Engineering - User Experience (UX) Design and Full-stack development with PHP, HTML, CSS, JavaScript, PostgreSQL, PostGIS

### **Global Optimization**

*Software Consultant | August 2016 – Present*

Software Project Manager - Consult on software and analytics projects; determine scope, feasibility and cost; conduct sales presentations and initial consulting services  
Consultant - Advise on machine-learning projects for travel agency clientele

### **The Logical Option**

*Owner | January 2015 – August 2016*

Full-Stack Development of simulation software for options trading

### **CBE Companies**

*Senior Mathematical Analyst | January 2011 – December 2014*

Debt Purchase Analyst - Construct a multivariate mathematical forecast model for debt-portfolio liquidation. Showcase to hedge fund investors and consult on debt purchase ventures.

Full-Stack Developer – Simulate Noble Automated Dialer and construct an Employee Evaluation Service on a LAMP stack using HTML, CSS, JavaScript, jQuery, PHP, Perl, MySQL

## Education

### **University of Northern Iowa**

BA Mathematics | May 2010 | GPA 4.00

MA Mathematics | May 2012 | Thesis: On Twisted Joins and Their Ihara-Zeta Functions

## Other Activities

Dean's Student Advisory Committee

National Society of Collegiate Scholars

Consultant on Genetic Algorithms for Artificial Life

## Publications

*Ihara-Zeta Functions and Cospectrality of Joins of Regular Graphs*, Discrete Mathematics Journal, with A. Blanchard, M. Somodi

## Professional Skills

Fluent in abstract and applied mathematics

AWS: EC2 / S3 / RDS / Redshift / VPC / CloudFront / Route53 / CloudWatch / Transcribe / etc

SQL / PostgreSQL / MySQL / relational database design

Server-side software development & engineering: PHP / Python / Perl

Client-side: Angular 2+ / CSS / HTML / JSON / JavaScript / jQuery

Version Control: git / Bitbucket / GitHub

MS Excel / Visual Basic / PowerPoint / MS Word / Visio / MS Office Suite

Screenflow / iMovie / (some Adobe Premiere)

Linux / Windows / Mac OS

CLI proficiency: Linux / Mac

Project organization / Task prioritization

Excellent Communication and Interpersonal Skills ☺

## References

Michael Prophet, PhD – Student Advisor / Colleague – [mike@globalopt.com](mailto:mike@globalopt.com) - 319.830.4569

Darrell McCormick – Previous Supervisor – [demccormick2000@yahoo.com](mailto:demccormick2000@yahoo.com) - 319.493.8583

Derek Cruikshank – Previous Colleague – [derekcruik@gmail.com](mailto:derekcruik@gmail.com) - 641.751.5963

Stephen Bowser – Colleague - [bowers1991@gmail.com](mailto:bowers1991@gmail.com) - 515.571.3525

Cory Vieth – Colleague and previous client – [cory@comptroubles.com](mailto:cory@comptroubles.com)

Ben Rendall – Professional Cohort / Best Friend – [bendall15@gmail.com](mailto:bendall15@gmail.com) – 319.651.4251

Further references, including those from the executive level, are available on request