

James Bryan Graves

Amsterdam, The Netherlands | +31 6 11 75 19 66 | gravjabr@iu.edu
born: 1978, United States of America

- Computer Scientist, Software Development Engineer, >20 years
- Software/System Architecture, OOP, Functional (λ) programming, APIs, Operating Systems
- Data, Data Science
- Algorithms, Complexity, Information Theory
- 2+ years lecturing/teaching Bachelor's students
- Co-founder of grant supported non-profit, >3 grant supported research projects

EDUCATION

Indiana University <i>Quantum Information Science MS</i>	Bloomington, IN, USA <i>Aug. 2024 – Present</i>
Massachusetts Institute of Technology, MIT <i>Quantum Computing Fundamentals, xPRO</i>	Cambridge, MA, USA, remote <i>Apr. 2024 – June 2024</i>
University of Applied Sciences Amsterdam, The Hague, Saxion, Fontys <i>Introduction Quantum Computing, Master's curriculum development & test run</i>	The Netherlands <i>Apr. 2024 – June 2024</i>
Purdue University <i>Bachelor of Science in Computer Science, BSCS, Music Theory Minor</i>	West Lafayette, IN, USA <i>Aug. 1996 – May 2000</i>

EXPERIENCE

CTO in residence, tech leadership <i>Antler, antler.co</i> <ul style="list-style-type: none">• Entrepreneurship, startups, & venture capital• Quantum computing• Gen AI, prompt engineering, & AI/ML• Compute, GPU & cloud	May 2024 – Present <i>Amsterdam, The Netherlands</i>
Technology Lead (interim CTO), Senior SDE <i>Dream Machine Innovations Inc., More to*, moreto.io</i> <ul style="list-style-type: none">• Prompt engineering, integration and content creation with Gen AI (OpenAI GPT-4)• REST API using Python, PostgreSQL• Apple iOS app in Swift/SwiftUI	Jul. 2023 – Present <i>New York, New York, USA, REMOTE</i>
Co-founder, CTO, Technology Lead, Senior SDE <i>THE EMBASSIES of Good Living AG, embassies.com</i> <ul style="list-style-type: none">• Intent based iOS app in Swift with Apple Watch & Homepod/Siri support• REST API using Typescript, Node.js, GraphQL	Oct. 2020 – March 2023 <i>Zürich, Switzerland, REMOTE</i>
Researcher, Senior SDE <i>Hubzero, Purdue University, UCSD, San Diego Supercomputer Center (SDSC), hubzero.org</i> <ul style="list-style-type: none">• JVM based microservices in Clojure (λ) & Java• Frontend & data visualizations (charting) in Clojurescript (CLJS), Re-frame, React, D3• Big Data, Hadoop, Apache Solr (NoSQL)• MySQL, RabbitMQ, Docker• Published 2 academic papers, multi-conference speaker	Oct. 2015 – Oct. 2020 <i>San Diego, CA, REMOTE</i>
Lecturer & Workshop Leader <i>Royal Academy of Art (KABK), kabk.nl</i> <ul style="list-style-type: none">• Teaching position & workshop leader for Bachelor's level design based coding curriculum• 2 classes per semester, >30 students each• Conducted additional lectures & workshops for Master's students	Dec. 2019 – Jun. 2021 <i>The Hague, The Netherlands</i>
Founder <i>Hackers & Founders, hackersandfounders.nl</i>	Feb. 2011 – Nov. 2019 <i>Amsterdam, The Netherlands</i>

- Meetup group & community
- >10000 members across The Netherlands
- co-working, leased property, 850m² real estate, \approx 100 desks

Co-founder

Hackers & Designers, hackersanddesigners.nl

Jul. 2013 – Aug. 2018
Amsterdam, The Netherlands

- Non-profit (Stichting)
- Mission: To bringing art, design, & technology closer together
- Authored grant awarded applications, funded year over year
- Node.js, Python, Solidity, Ethereum, Linux, Bitcoin, Javascript, RaspberryPi

Technology Lead, Senior SDE

Qardio, Inc., qardio.com

May 2013 – Oct. 2015
San Francisco, CA & Amsterdam, The Netherlands

- Apple iOS app in Swift/Objective-C for Bluetooth connected consumer health devices
- REST API, PHP
- AWS, Docker, PostgreSQL, Embedded C
- Wrote approved United States FDA (Food & Drug Administration) application & specifications

Co-founder, CTO, Senior SDE

Ideedock

May 2011 – May. 2013
Amsterdam, The Netherlands

- Developed REST API in Javascript/Node.js
- Backbone.js based MVC frontend
- Technologies including AWS, MongoDB

Mobile Lead, Senior SDE

Whatser

Sep. 2009 – May 2011
Amsterdam, The Netherlands

- Location (GPS) based social media platform, Augmented Reality (AR)
- Apple iOS/Objective-C, C, C++, REST, APIs, Ruby on Rails

Senior SDE

Interactions Incorporated

Jun. 2008 – Jul. 2009
Carmel, IN USA

- Teleconferencing platform
- Java, Java EE, HTTP, APIs, HTML, CSS

Senior SDE

Computer Sciences Corporation (Arabia)

Feb. 2007 – May 2007
Riyadh, Saudi Arabia

- Biometrics platform
- Java, Java EE, IBM Websphere, Oracle

Senior Software Consultant

Software Architects, Sogeti

Jun. 2003 – Feb. 2007
Riyadh, Saudi Arabia

- Java, Java EE, IBM Websphere, Oracle, DB2

SDE

Cantilever Technologies

Oct. 2000 – Feb. 2003
Purdue University, West Lafayette, IN USA

- Java, XML, XLST, PostgreSQL

SDE

IBM

May 2000 – Oct. 2000
Burlington, VT

- C++ & Java based test evaluation platform with UI for silicon wafer test results
- IBM Websphere Application Server, DB2

TECHNICAL SKILLS

Languages: C/C++, Python, Javascript, Java, Clojure, .NET/C#, PHP, SQL, GraphQL, Swift, Objective C, ...

Frameworks: React, Vue, Next/Nuxt, Node.js, Apple Developer, Django, Rails, ...

Developer Tools: Git, Docker, Google Cloud Platform, AWS, ...

Coliving Conference, Speaker

Amsterdam, The Netherlands, Sep. 2023

Lecture/Workshop, Royal Academy of Art (KABK)

Den Haag, The Netherlands, Jan. 2023

Speaker, EGI Conference

Amsterdam, The Netherlands, Nov. 2020

Speaker, IMPAKT Festival

Utrecht, The Netherlands, Oct. 2020

Speaker, Gateways Conference, Science Gateways Community Institute (SGCI)

San Diego, CA, USA, Oct. 2020

Lecture/Workshop, Aalto University

Helsinki, Finland, Dec. 2019

Exhibitor, Mutation Festival

Nerdlab, Ghent, Belgium, Oct. 2019

Participant, Sandberg Instituut Masterclass

Amsterdam, The Netherlands, Mar. 2019

Workshop/Exhibitor, Science Gateways Community Institute (SGCI)

San Diego, CA, USA, Sep. 2018

Organizer, Hackers & Designers Summer Academy 2018

Amsterdam, The Netherlands, Jul. 2018

Lecture/Workshop, School of City Design, CAFA

Beijing, China, Oct. 2017

Lecture/Workshop, Fine Arts Academy of Hunan Normal University

Chang Sha, China, Oct. 2017

Exhibitor, Oddstream

Arnhem, The Netherlands, Oct. 2017

Organizer, Hackers & Designers Summer Academy 2017

Amsterdam, The Netherlands, Jul. 2017

Speaker, FIBER Festival, Speaker

Amsterdam, The Netherlands, May 2017

Speaker, Hackers & Founders Meetup

Amsterdam, The Netherlands, Apr. 2017

Speaker, REMEDI Pump collaborative conference

Chicago, IL, USA, Apr. 2017

Residency, Oddstream Oddstay

Arnhem, The Netherlands, Apr. 2017

Exhibitor, STRP Festival

Eindhoven, The Netherlands, Mar. 2017

Workshop, Baby you can drive my car (self-driving car)

Amsterdam, The Netherlands, Feb. 2017

Exhibitor, KASK, ... een kleptomaan neemt de dingen letterlijk ...,

Gent, Belgium, Feb. 2017

Workshop, Big Brother Awards

Amsterdam, The Netherlands, Nov. 2016

Exhibitor, Journey with Hovel Bot
Brussels, Belgium, Oct. 2016

Speaker, ACM Purdue University
West Lafayette, IN, USA, Oct. 2016

Workshop, Endless Cities Festival
Toronto, Canada, Sep. 2016

Speaker, Otis College
Los Angeles, CA, USA, Sep. 2016

Residency, Mad Scientist Festival
Bern, Switzerland, Sep. 2016

Organizer, Hackers & Designers Summer Academy 2016
Amsterdam, The Netherlands, Jul. 2016

Exhibitor, Northside Festival
Brooklyn, NY, USA, June 2016

Speaker/Exhibitor, Sektor 3.0 Conference
Warsaw, Poland, May 2016

Workshop, LibreGraphics Meetup
London, United Kingdom, Apr. 2016

Workshop, Sandberg Instituut
Amsterdam, The Netherlands, Feb. 2016

Exhibitor, ZineFest
Berlin, Germany, Nov. 2015

Workshop, Mozilla Mozfest
London, United Kingdom, Oct. 2015

Speaker, EBF Conference
Groningen, The Netherlands, September 2015

Organizer, Hackers & Designers Summer Academy 2015
Amsterdam, The Netherlands, Jul. 2015

Residency, Invisible Cities Festival
Gorizia, Italy, June 2015

Exhibitor, Appril Festival
Amsterdam, The Netherlands, Mar. 2015

Workshop, University of Amsterdam
Amsterdam, The Netherlands, Feb. 2015

Workshop, Mozilla Mozfest
London, United Kingdom, Oct. 2014

Exhibitor, Collision Conference
Las Vegas, NV, USA, May 2014

Exhibitor/Speaker, Tech Crunch Disrupt
Berlin, Germany, Oct. 2013

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