# Kristian Freed

MSc, Software Specialist

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## PROFILE

**Technical leader** and **software architect** with a track record of working in some of the world's most competitive environments. Strong hands on background with **15+ years** of programming experience using more than 10 languages, predominantly in greenfield development. Solid theoretical foundation with a **MSc degree** in Computer Science. Background working with both agile start up companies and large institutions, with consistent focus on delivering business value.

## RECENT CAREER HISTORY

### Deputy Practice Head, Principal Consultant at Lab49

Apr. 2011 - Present │ London │ Java 7, Akka, C# 5.0, JavaScript │ FX Trading, Low Latency, Full SDLC

**Lab49** is a global software consultancy specialising in disruptive end to end software solutions for **tier one banks** and other financial organisations with offices in New York, London, and Sydney. The current role is focused on technical leadership, software architecture, and client interaction.

- Architectured a core framework used in multiple deployed high frequency, low latency trading platforms, providing **security**, **fault tolerance**, and **horizontal scaling** capabilities.
- Delivered projects to 3 **tier one** investment banks as an onsite technical lead and as a developer, spanning both development and collaborative analysis projects.
- Led teams of 10+ developers, and provided company wide technical domain expertise.
- Acted as line manager responsible for day to day contact and formal performance review processes.
- Worked with clients, business domain experts, and **user experience** experts to ensure that software solutions delivered matched client expectations and technical quality targets.
- Performed face to face interviews, phone screenings, and reviewed coding challenges.

### Senior Software Developer at Trayport Limited

Jan. 2010 - Mar. 2011 │ London │ C# 4.0, F# 2.0, C++, BDD │ Commodities Trading, Full SDLC

**Trayport** is the market leading provider of trading platforms for the European energy market.

- As **technical lead** on a 7 man team, developed Trayport Joule, a modern .NET based replacement for the existing C++ based trading UI, from idea to completed product.
- Pioneered the use of **F#** at Trayport in conjunction with well known members of the F# community.
- Worked with the QA team, and as the first project in the company, used **BDD** (Gherkin/SpecFlow) with UI and non UI automation as the primary software quality validation mechanism.

### CTO, Lead Developer at Synaps AB

Nov. 2007 - Dec. 2009 │ Gothenburg │ C# 3.0, WCF, SQL Server 2008 │ Health Care Startup, Mobile

**Synaps** was formed around the product with the same name developed for Sahlgrenska University Hospital (see below) to work on further development and sell the system to other hospitals in Sweden and Europe.

- Represented the company in meetings with customer, partner, and investor. Attended **trade fairs** in Sweden and Europe to promote the product and identify new trends in the industry.
- Worked in close collaboration with target end users and in house health care experts to maximize the usefulness of the product while following relevant **regulations** for handling patient data.
- **Led development** on client (Windows Mobile) and server components (.NET, WCF, SQL).

### Software Developer at Sahlgrenska University Hospital

Oct. 2005 - Oct. 2007 │ Gothenburg │ C# 2.0, ASP.NET, SQL Server 2005 │ Health Care Application, Mobile

**Sahlgrenska** is the largest hospital in Scandinavia. The hospital funded the development of a mobile application designed to simplify the day to day operations of doctors and nurses at the hospital. Based on studies done at the hospital, the product would reduce time spent on administration tasks by 30 minutes per doctor and day.

- As part of a small development team, brought the product Synaps from idea to end user testing.
- Worked with health care personnel, interaction designers, and graphical designers to create a user experience for the application that was technically feasible and conformed to regulations.

## Lead Developer at Edoctrina AB

Feb. 2005 – Aug. 2005 │ Gothenburg │ Java 5, JMF, Xith3d │ Interactive Teaching Aid

**Edoctrina** is a start up company specialising in interactive multimedia teaching aids. Their product Digidoctus allows students to revise maths and science subjects with the aid of an interactive lessons, questions and answers platform.

- With a team of 5 people, led the development of Digidoctus, from idea to beta release in 6 months.
- Worked on all levels of the application, from system architecture to implementation of a 3D formula layout and animations engine.

# TECHNICAL EXPERTISE

Experience of a broad range of technologies and programming languages from Pascal first used 20+ years ago to Kotlin being a current interest. Examples include:

- Languages used professionally: Java, C#, F#, C++, JavaScript, Ruby, Objective-C
- Other languages: Haskell, Pascal, Basic, x86 Assembly, Python, Scala, Kotlin
- Framworks: Akka, J2EE, Rails, Django, WPF/Silverlight, WCF, RX, Angular.js
- Paradigms: OOP, Functional Programming, Message Based Programming, Event Sourcing, CQRS, Reliable Messaging, Cloud Computing, NoSQL

# EDUCATION

## MSc in Computer Science at Chalmers University of Technology

Master's thesis: Anthropomorphic artificial intelligence for Professor John Hughes

Graduated in 2005 │ Gothenburg │ Computer Languages and Algorithms

**Chalmers** is a top tier Swedish university well regarded for their Computer Science division. At the time, Swedish universities offered an integrated BSc + MSc 5 year program.

- Extensive use of **Haskell** and functional programming paradigms championed by Professor John Hughes of the Haskell language committee.
- Specialised in **computer languages** and algorithms, with a number of projects in and outside of curriculum related to domain specific languages and compiler technology.
- Worked as a teaching assistant in Java and Haskell programming courses.

# SCHOLARSHIPS AND AWARDS

## National programming contest "The List", Sept. 2008

Finished 3rd in a national programming contest hosted by the European software consulting company ÅF as part of a PR and recruitment campaign.

## Mensa Membership, Oct. 2004

Admitted to Mensa Sweden, the Swedish branch of the Mensa high IQ society, after scoring in the top 2% in standardised IQ test.

## Scholarship from The Adlerbertska scholarship fund, Oct. 2002

Received scholarship awarded to selected students at Chalmers University of Technology annually.

## Scholarship from Märta and Axel Dunge memorial fund, Jun. 2000

Received scholarship awarded to 2 exam students at Stångådalen High School for outstanding results in natural and human science annually.

# LANGUAGES

**English** (fluent), **Swedish** (fluent), **German** (basic understanding)